Esmail Abdul Fattah

Postdoc, High Performance Computing & Statistics
King Abdullah University of Science and Technology (KAUST)
Thuwal, Saudi Arabia

جامعة الملك عبدالله للعلوم والتقنية
King Abdullah University of Science and Technology

Scientific Field | Computer Science

Research Interests

- Approximate Bayesian Inference
- Tiles Algorithms
- Linear Algebra Computations

sTiles

Personal Interests

- Travel Photography
- Table Tennis

Akhlaque Ahmad

Assistant Scientist
Computer Science, Indiana University
Bloomington, IN (USA)

LUDDY
SCHOOL OF INFORMATICS,
COMPUTING, AND ENGINEERING

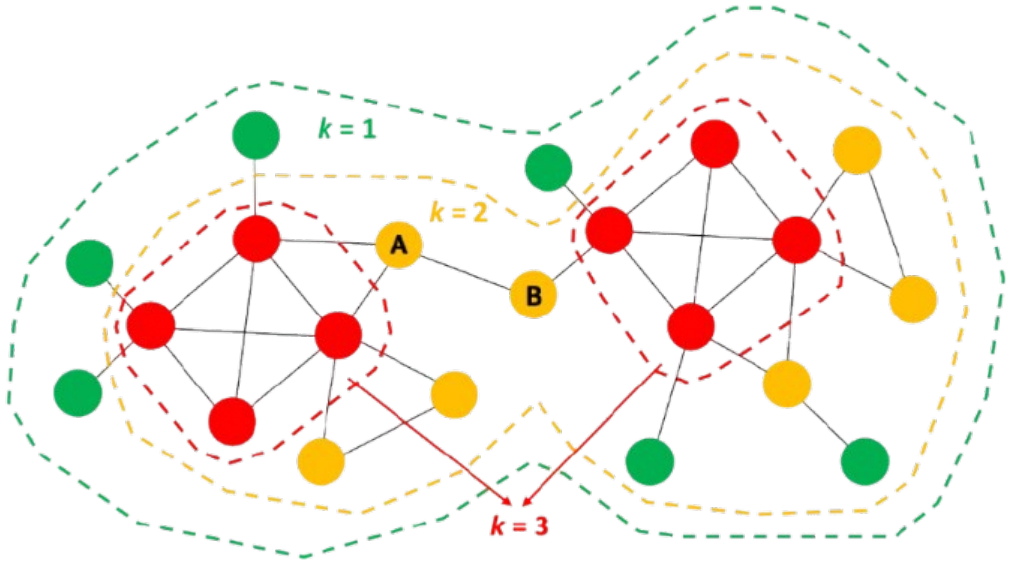
Scientific Field | Computer Science

Research Interests

- Graph Mining
- High Performance Computing
- Algorithms

Personal Interests

- Swimming
- Hiking



Reet Barik

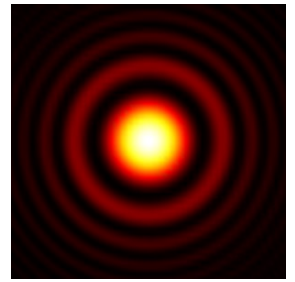
Postdoctoral Appointee, Portability and AI at scale
Argonne Leadership Computing Facility, Argonne National Lab
Lemont, IL (USA)

Argonne NATIONAL LABORATORY

Scientific Field | Computer Science

Research Interests

- High Performance Computing for AI/ML
- Portable frameworks for scientific applications
- Combinatorial optimization



QCDLoop

kokkos

Personal Interests

- Soccer, Basketball, Badminton
- Hiking

Solomon Bekele

Postdoctoral Appointee
Leadership Computing Facility, Argonne National Laboratory
Lemont, IL USA

Scientific Field | Computer Science

Research Interests

- Performance analysis and tracing frameworks for heterogeneous HPC systems
- Performance-energy tradeoff in HPC
- Resource contention aware power management in CMPs

Personal Interests

- Football (Soccer)
- Movies

Elizabeth Berrigan

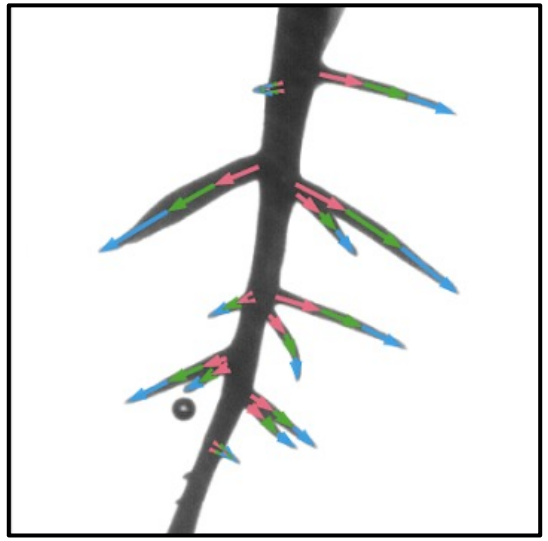
Scientific Programmer
PBIOB, TPEREI, Salk Institute for Biological Studies
La Jolla, CA (USA)

Scientific Field

Earth Science, Agricultural Sciences; Computer Science

Research Interests

- Computer vision
- Automated plant phenotyping
- Foundation models



Personal Interests

- Woodworking
- Gardening

Fakhrul Hasan Bhuiyan

Postdoctoral Researcher
Computational Science, Argonne National Laboratory
Lemont, IL

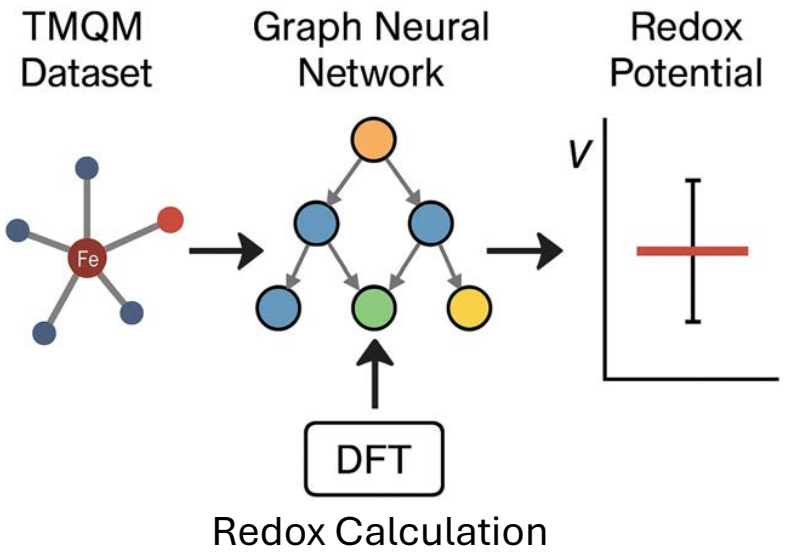
Argonne NATIONAL LABORATORY

Scientific Field

Materials Science, Materials Discovery, Design, and Synthesis

Research Interests

- Machine learning interatomic potentials
- AI/ML for material science
- Atomistic simulations of chemical/electrochemical processes



Personal Interests

- Soccer
- Music

Rémi Bourgeois

Researcher / Engineer
French Atomic Energy Commission (CEA)
Paris-Saclay, France

Scientific Field

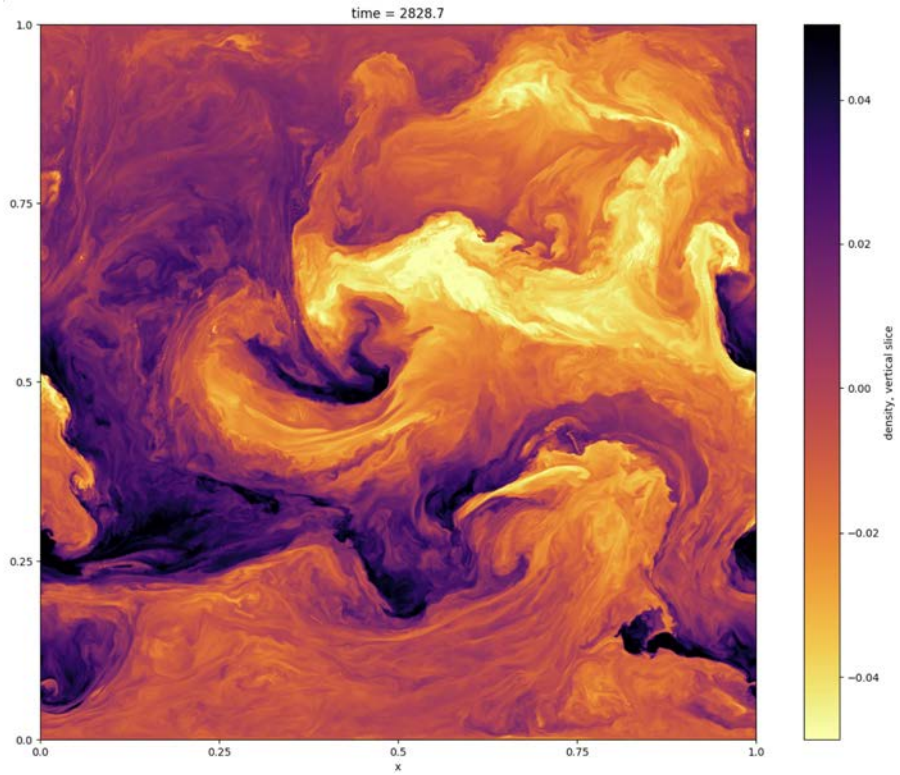
Nuclear Energy

Research Interests

- GPU Kernel / Application Optimization
- GPU-enabled Algebraic Multigrid methods
- Numerical method for fluid dynamics

Personal Interests

- Hiking
- Bouldering



Jenna Bradley

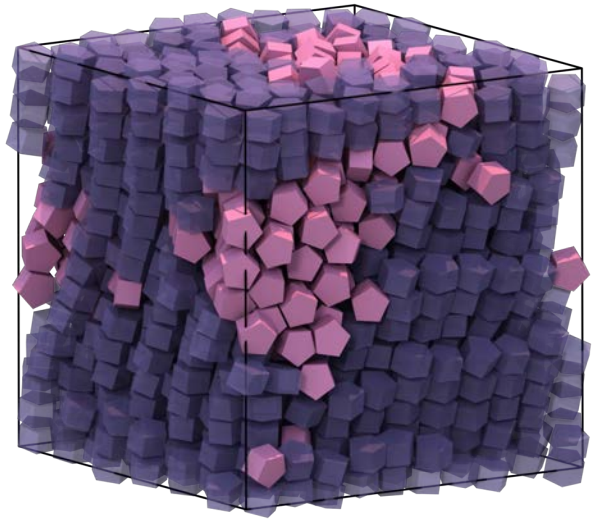
PhD Candidate
Materials Engineering, University of Michigan
Ann Arbor, MI (USA)

UNIVERSITY OF MICHIGAN

Scientific Field | Materials Science, Nanoscience

Research Interests

- Emergence of complexity on the mesoscale
- Computational geometry
- 3D vector rendering



Personal Interests

- Cooking
- Gardening

Gabriel Brown

PhD Student
Oden Institute for Computational Science, UT Austin
Austin, TX (USA)

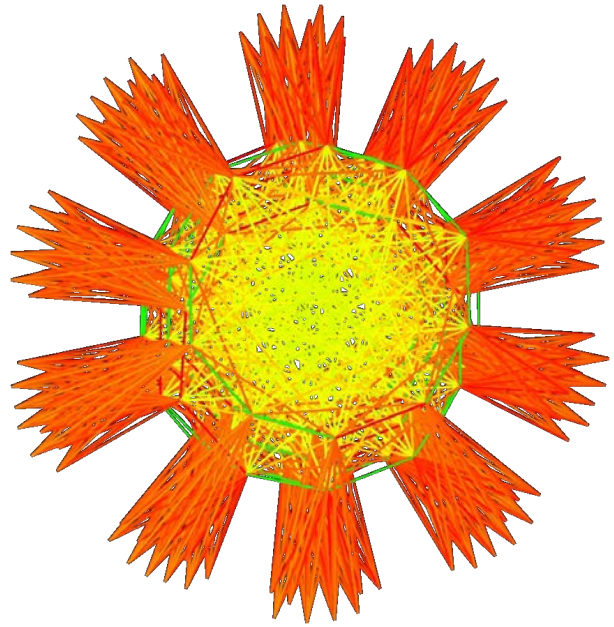
Scientific Field | Mathematics, Computer Science

Research Interests

- Tensor computation
- Lossy compression of scientific data
- Fast algorithms

Personal Interests

- Street photography (especially graffiti)
- Volleyball



Miha Cernetic

Postdoc
Astrophysics, UChicago
Chicago, IL

THE UNIVERSITY OF CHICAGO

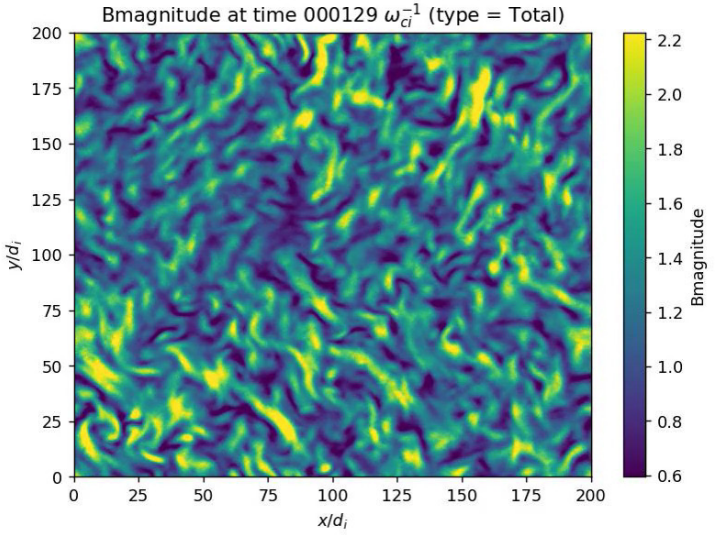
Scientific Field | Physics, Astrophysics

Research Interests

- Cosmic ray acceleration
- High-order hydrodynamic methods
- GPU computing

Personal Interests

- Running
- Self-hosting, homelab



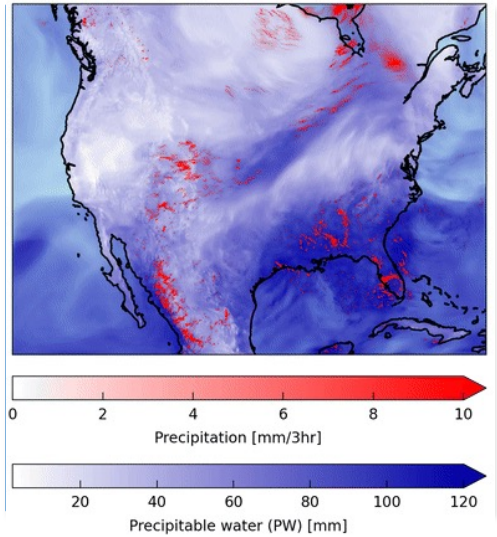
Erick Claros

Master Student
University of Illinois Urbana-Champaign
Urbana, Illinois (USA)

Scientific Field | Earth Science, Climate Research

Research Interests

- High resolution climate modeling
- Land-atmosphere interactions
- Surface hydrology



Personal Interests

- Cooking
- Soccer

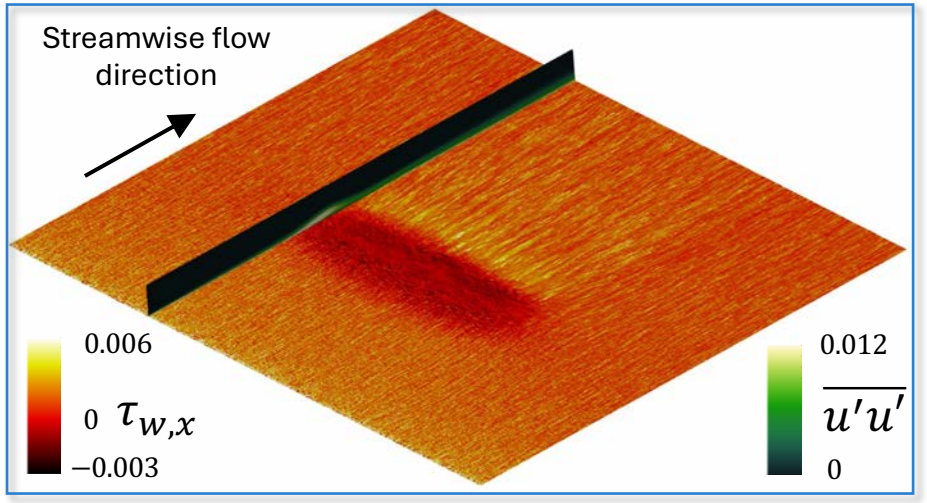
Ben Dalman

PhD Student
Aerospace and Mechanical Engineering, University of Southern California
Los Angeles, California (USA)

Scientific Field | Engineering, Fluids and Turbulence

Research Interests

- Separated turbulent flows
- Sensitivity estimations for chaotic systems
- High-performance computing



Personal Interests

- Running
- Puzzles
- Movies

Tara Drwenski

Research Software Engineer
Center for Applied Scientific Computing, LLNL
Remote from Fort Collins, CO (USA)

CASC
Center for Applied Scientific Computing

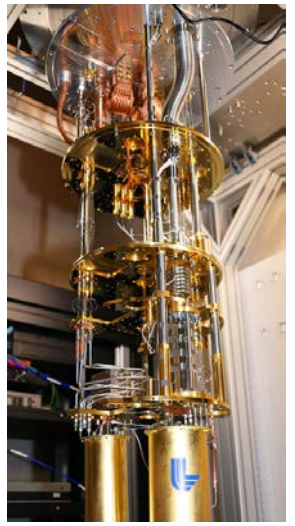
Lawrence Livermore National Laboratory

Scientific Field | Computer Science

Research Interests

- Sustainable Scientific Software
- High-Performance Computing
- Physics (Liquid Crystals, Quantum Computing)

QUANDARY



Personal Interests

- Games (Board, Computer, and Tabletop RPGs)
- Books (Fiction, Sci-fi/ fantasy)
- Hiking with my dog

Matthew S. Emerson

Research Associate Chemistry
Chemistry Division, Brookhaven National Laboratory
Upton, NY (USA)

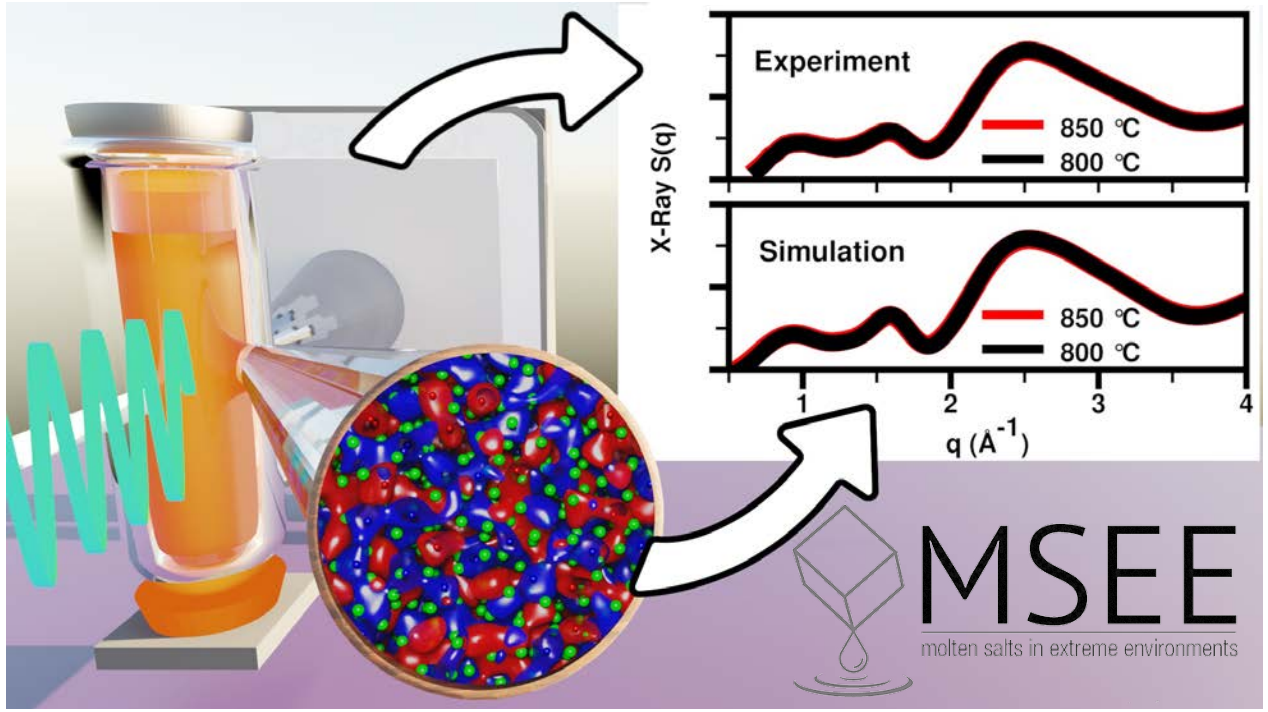
Scientific Field | Chemistry, Physical

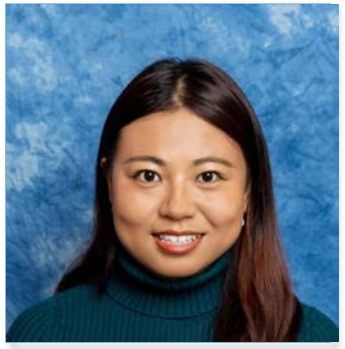
Research Interests

- High-Temperature Molten Chloride Salts
- Synchrotron X-ray Scattering and Reflectivity
- Ab-Initio and Polarizable Molecular Dynamics

Personal Interests

- Traveling for Food Reviews
- Video Games





Rui Fang

Ph.D. Student
Mathematics, University of Pittsburgh
Pittsburgh, PA (USA)

University of Pittsburgh

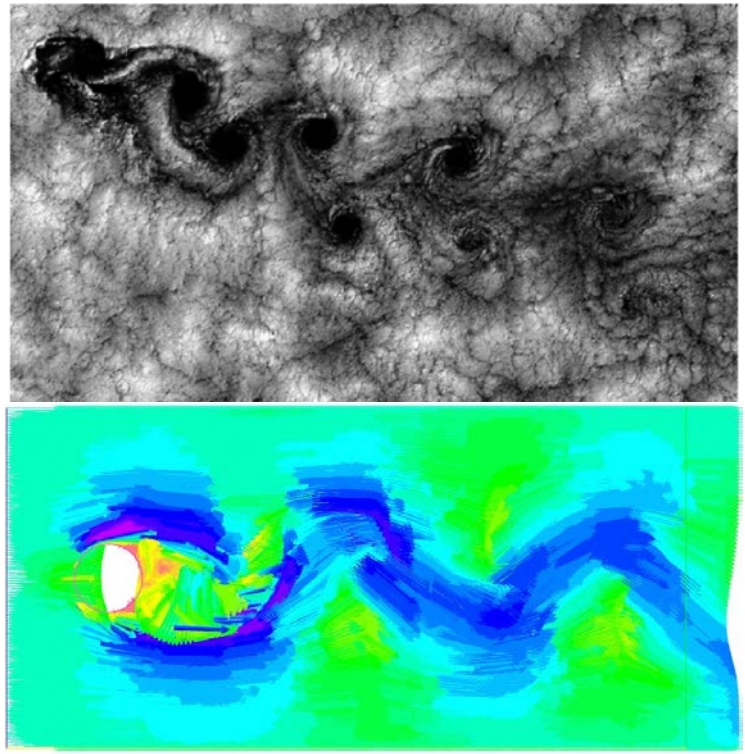
Scientific Field | Mathematics

Research Interests

- Numerical Analysis & Scientific Computing
- Computational Fluid Dynamics (CFD)
- Data Assimilation
- Ensemble Algorithms
- Scientific Machine Learning (SciML)

Personal Interests

- Ballroom Dance
- Swimming



Top: Photograph by Bob Cahalan, NASA GSFC.
Bottom: Numerical simulation of flow past a cylinder.

Abraham R. Flores

Postdoctoral Research Associate
Department of Physics, Washington University in St. Louis
St. Louis, MO, USA

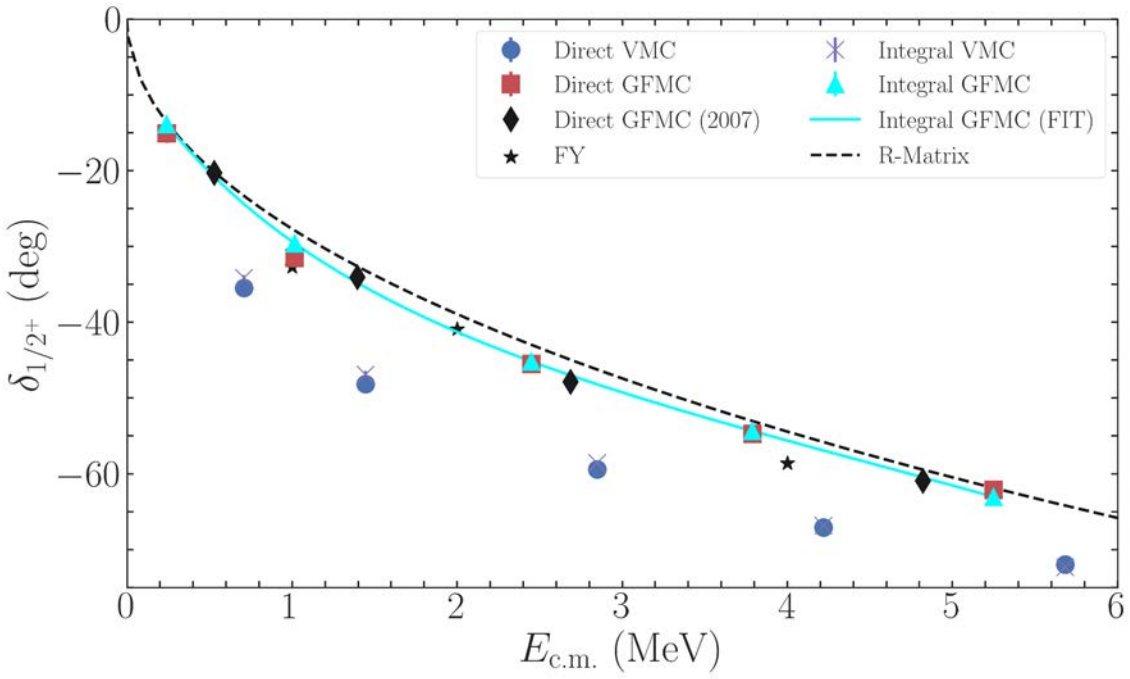
Scientific Field | Nuclear Physics

Research Interests

- High Performance Computing with GPUs
- Quantum Monte Carlo
- *Ab initio* Calculations of Nuclear Reaction

Personal Interests

- Refactoring Legacy Fortran Codes
- Baking and Cooking



Ericka Florio

PhD student
Department of Applied Mathematics and Theoretical Physics, University of Cambridge
Cambridge, Cambridgeshire (UK)

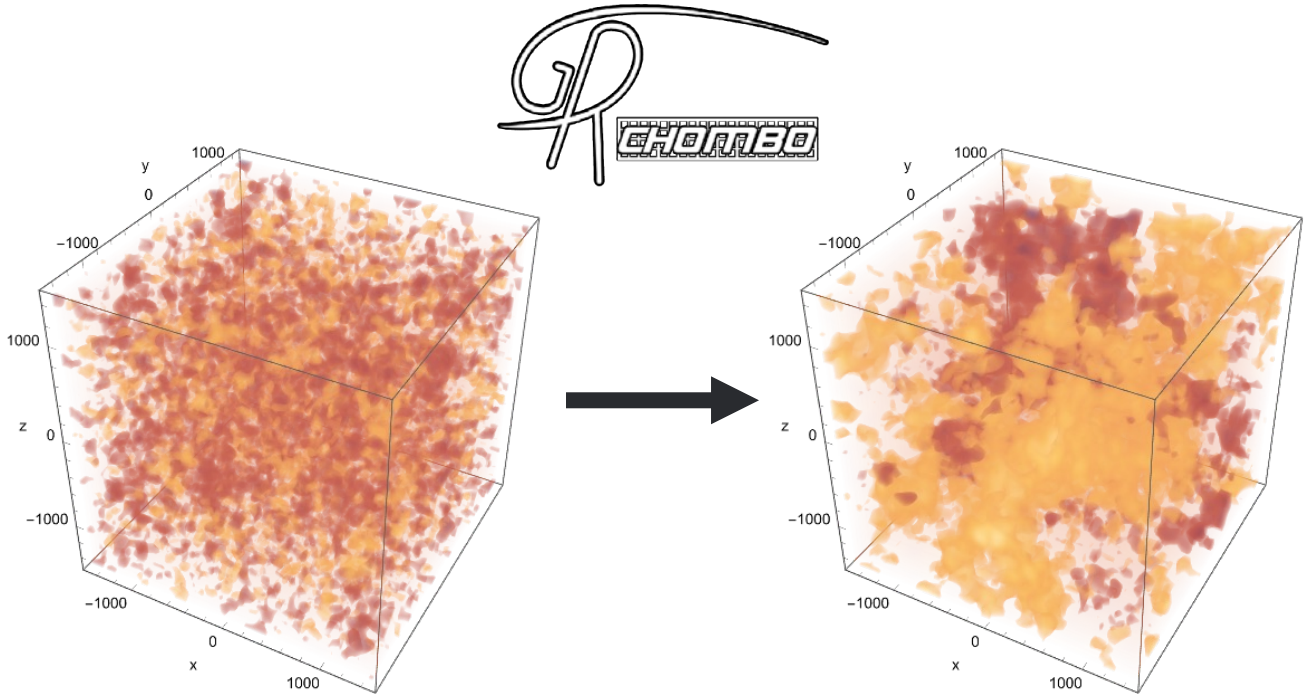
Scientific Field | High-energy physics

Research Interests

- Cosmology
- Gravitational waves
- Numerical relativity

Personal Interests

- Hiking
- Dance



Samantha Friess

Ph.D. Student
Mechanical Engineering, University of Colorado Boulder
Boulder, CO (USA)

Paul M. Rady Mechanical Engineering
UNIVERSITY OF COLORADO BOULDER

CMGLab

Scientific Field

Engineering,
Fluids and Turbulence

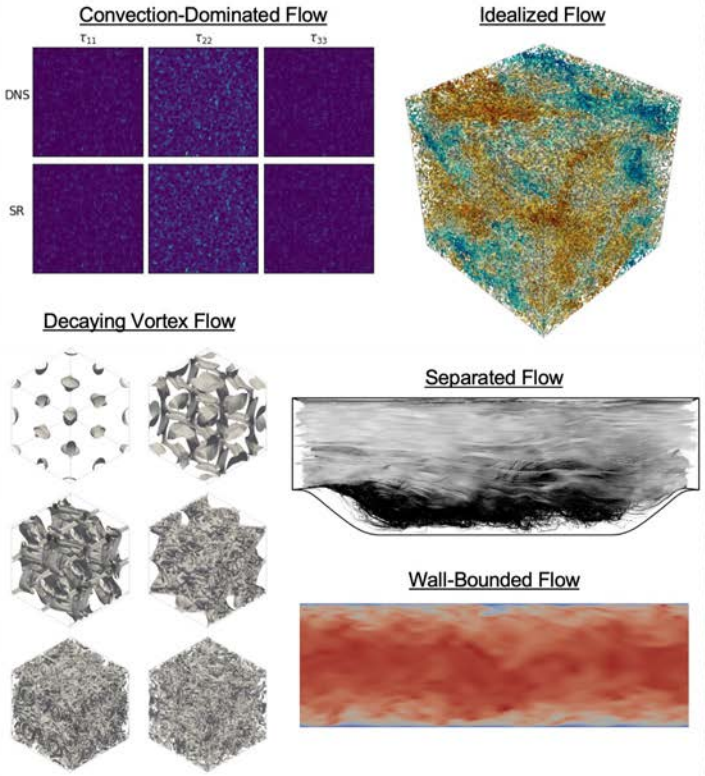
Research Interests

- Computational Fluid Dynamics
- Data-Driven Turbulence Modeling
- Atmospheric Flows and Wind Energy

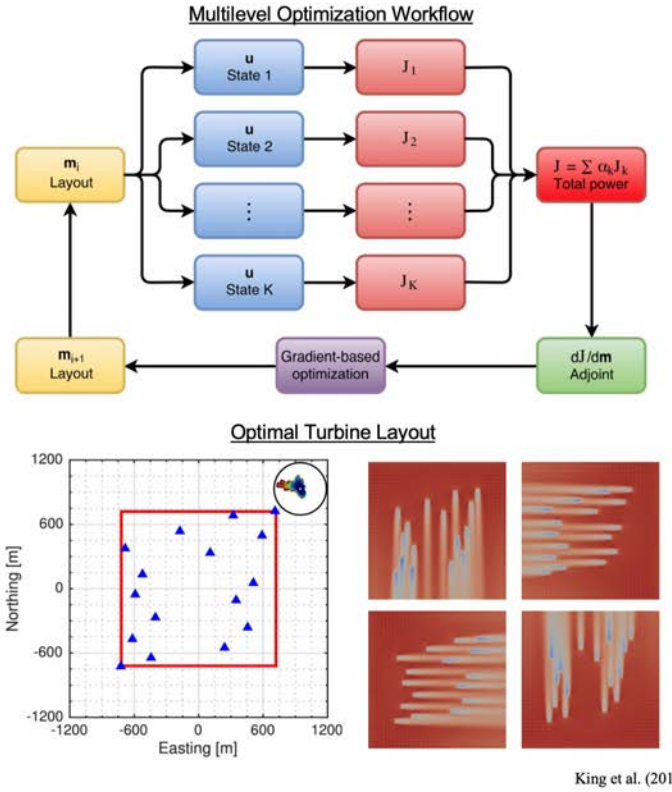
Personal Interests

- Botanical Collection/Care
- Woodworking

Development of Interpretable and Efficient Data-Driven Turbulence Closure Models for Large Eddy Simulation



Reynolds-Averaged Navier Stokes Solver Development for Optimization of Wind Farm Layout Design



King et al. (2017)

Joseph Frimpong

Postdoctoral Appointee
NST, Argonne National Laboratory
Lemont, Illinois, USA

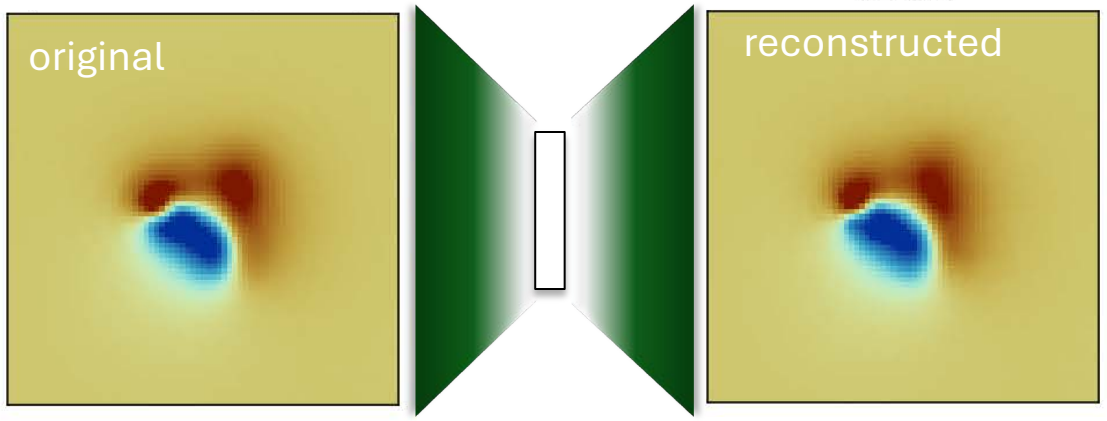
MICCoM

Argonne NATIONAL LABORATORY

Scientific Field | Materials Science, Nanoscience

Research Interests

- AI for electronic structure
- High-throughput materials discovery with AI/ML
- High Performance Computing



Personal Interests

- Photography & Videography
- Playing Piano

Yao Gahounzo

Postdoc
COAPS, Florida State University
Tallahassee, Florida (USA)

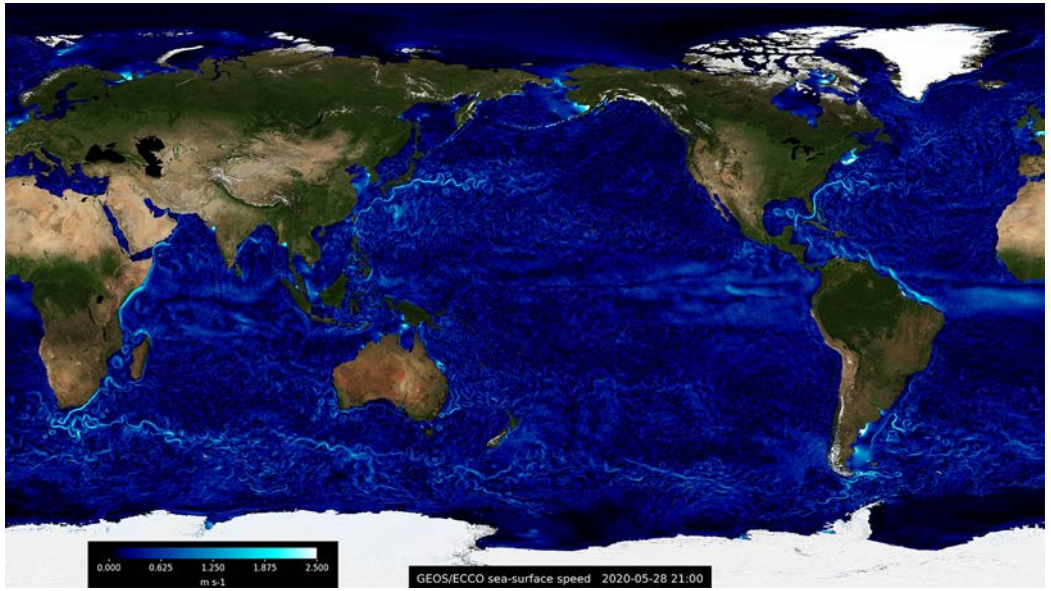
Scientific Field | Mathematics

Research Interests

- Finite Element and Finite Volume Methods
- Ocean model design and development
- High-Performance Computing
- GPU acceleration

Personal Interests

- Soccer
- Reading



Tejaswini Gautham-Pogioli

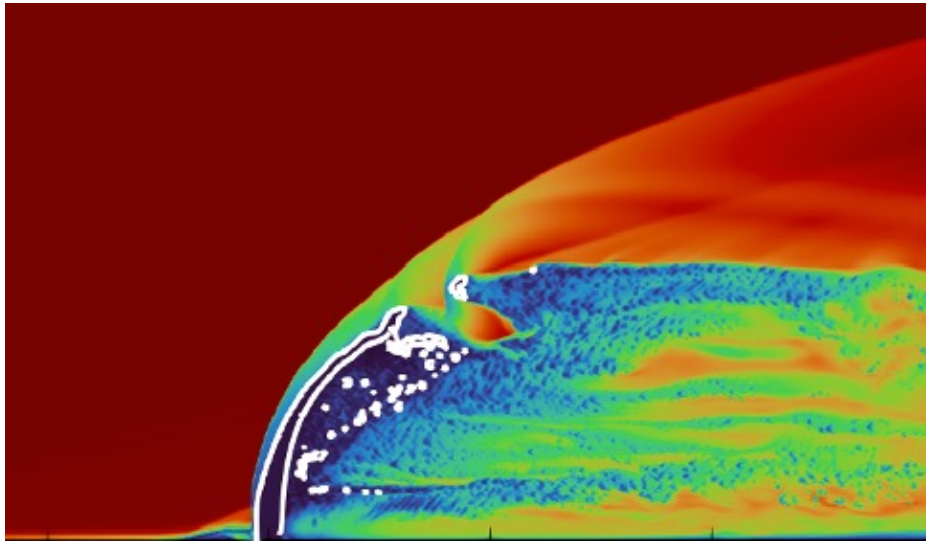
Ph.D. Candidate
Aerospace Engineering, University of Michigan
Ann Arbor, MI (USA)

Scientific Field

Engineering, Fluids and Turbulence

Research Interests

- Multiphase flow
- Combustion
- High-Performance Computing



Personal Interests

- Hiking
- Traveling

Lindsey Gordon

Graduate Student / Graduate Research Assistant
University of Minnesota / T-2 LANL
Minneapolis, MN / Los Alamos, NM

University of Minnesota

Los Alamos National Laboratory

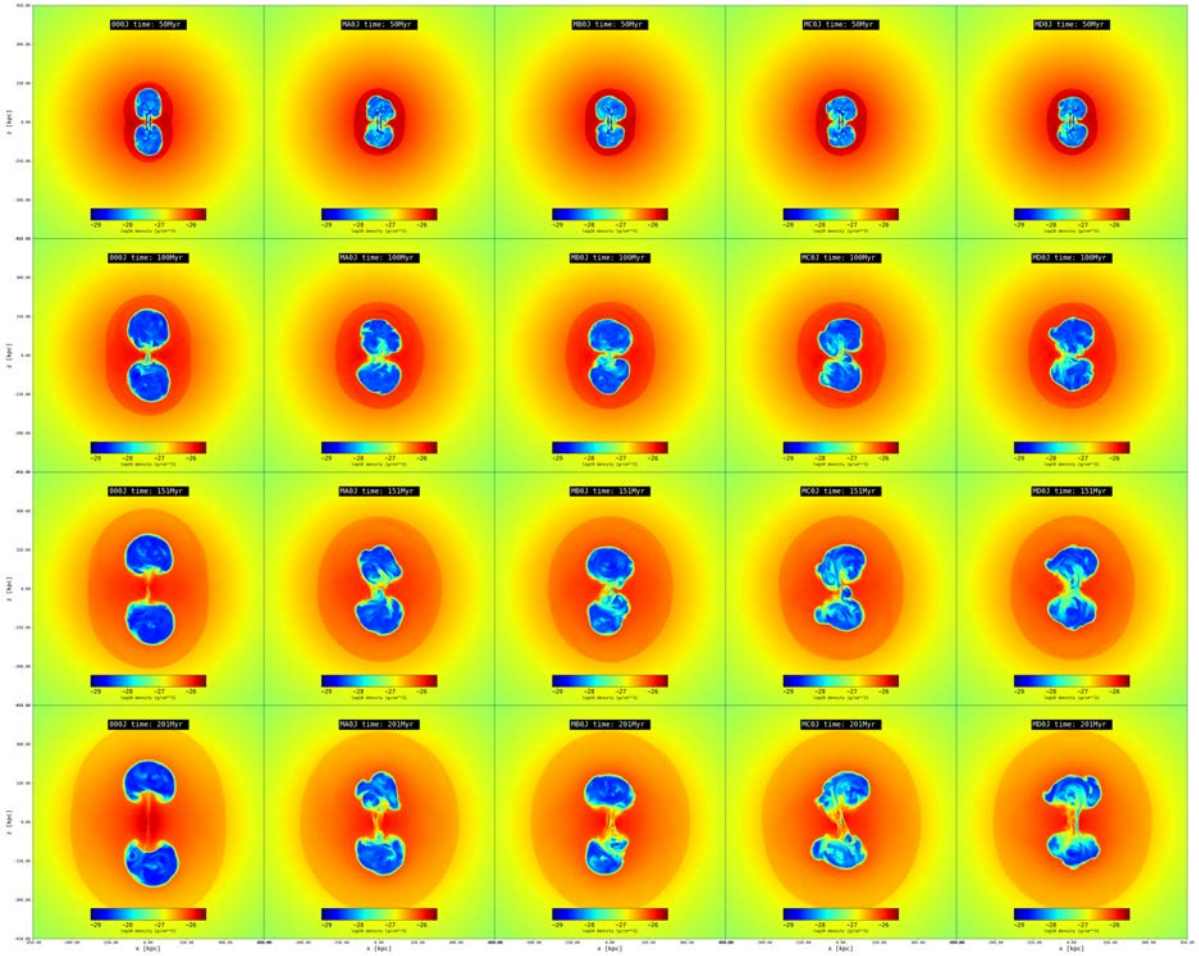
Scientific Field | Physics, Astrophysics

Research Interests

- Radio galaxies, AGN jets, and Galaxy Clusters
- Turbulence and Polarization in the ICM
- CFD Codes, GPU Offloading

Personal Interests

- Community theater
- Reading extremely thick fantasy novels



Aashish Goyal

ORISE Research Associate
Computational Science and Engineering,
National Energy Technology Laboratory,
Morgantown, West Virginia (USA)

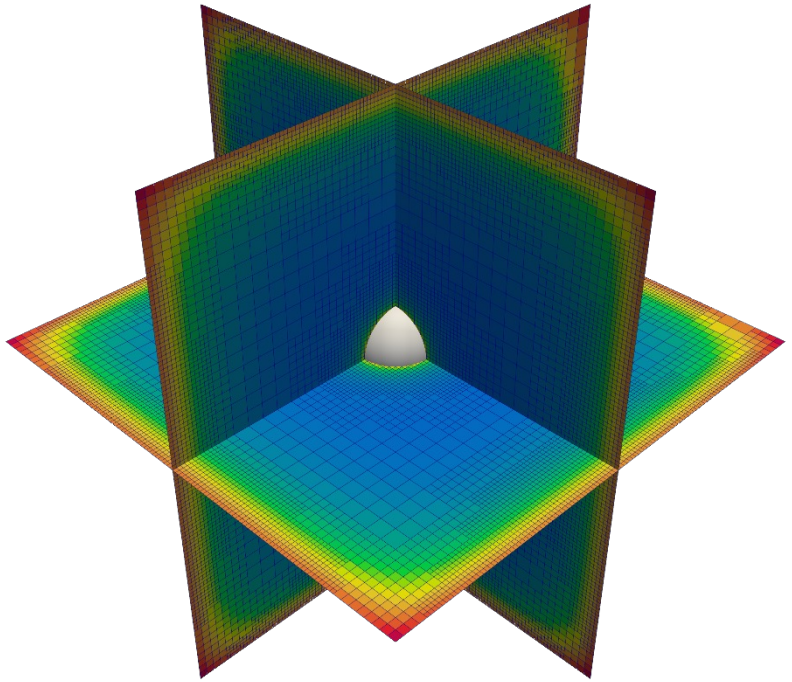
Scientific Field | Mathematics

Research Interests

- High-Performance Computing
- Finite Volume Methods
- Particle-laden flows

Personal Interests

- Hiking
- Biking



Anthony Grebe

Postdoc
Theory Department, Fermilab
Batavia, IL, USA

Fermilab

Scientific Field

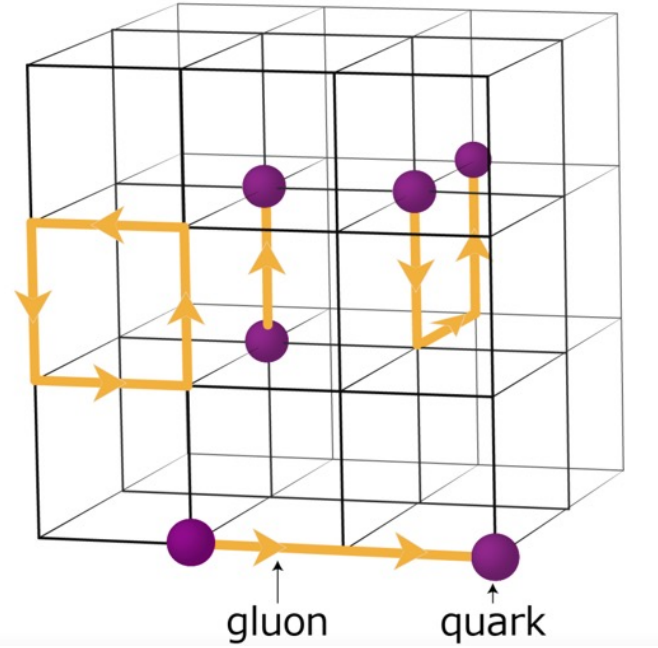
Particle/Nuclear Physics

Research Interests

- Muon g-2
- Neutrinoless double-beta decay
- Nuclear binding

Personal Interests

- Board games
- Computer games



Zhuowei Gu

Ph.D Student
Computer Science, Saint Louis University
Saint Louis, MO (USA)

SAINT LOUIS UNIVERSITY

Scientific Field

Computer Science

Research Interests

- High Performance Computing
- AI
- Domain Decomposition

E3SM Energy Exascale Earth System Model
CELEBRATING A DECADE OF PROGRESS

Personal Interests

- Snowboard
- Snooker

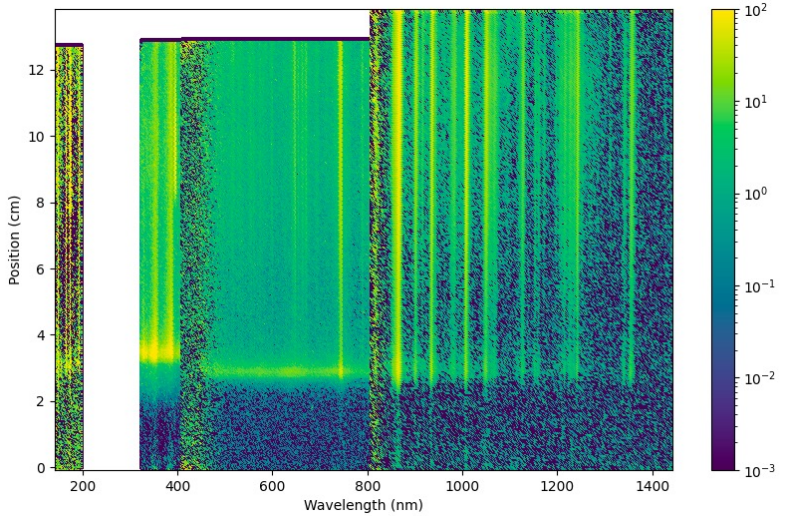
Kaelan Hansson

Aerothermodynamicist
Entry Systems and Technology Division, Ames Research Center
Mountain View, California

Scientific Field | Engineering, Heat Transfer

Research Interests

- High speed flows
- Radiative transport
- Weakly ionized plasma



Personal Interests

- Music
- Woodworking

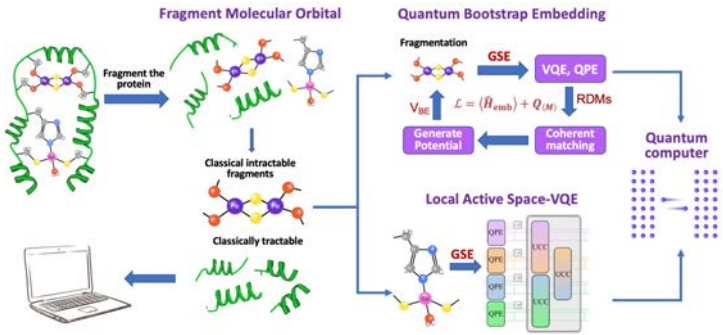
Tarini Hardikar

Research Scientist
qBraid Co
Redwood City, California

Scientific Field | Quantum Chemistry

Research Interests

- Quantum Computing for Quantum Chemistry
- Excited State Methods
- Quantum Error Correction



Personal Interests

- Hiking
- Baking

Md Fuad Hasibul Hasan

Ph.D. Student
Mechanical, Aerospace, and Nuclear Engineering, Rensselaer Polytechnic Institute (RPI)
Troy, NY (USA)

Rensselaer
why not change the world?®

Scientific Field | Nuclear Energy

Research Interests

- Monte Carlo Simulation
- Multiphysics Coupling
- Unstructured Mesh

Personal Interests

- History
- Cooking

Luis Hatashita

Ph.D. Student
Mechanical Engineering, Georgia Tech
Atlanta, Georgia (USA)

Georgia Tech

Flow Physics and Computational Science Lab

Scientific Field | Engineering, Fluids and Turbulence

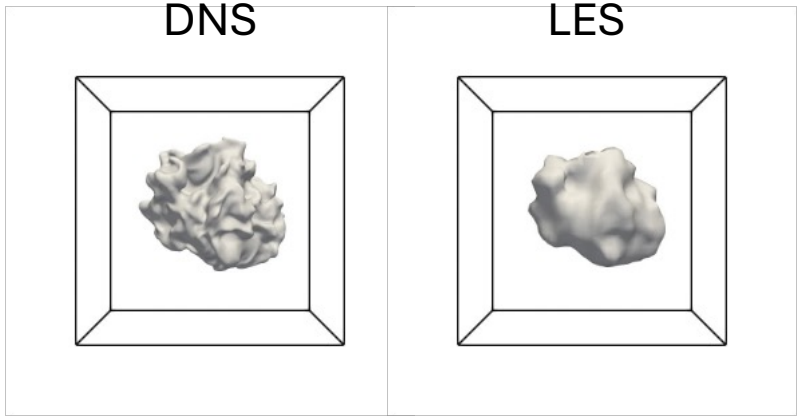
Research Interests

- Multiphase turbulent flows
- Turbulence modeling
- High-Performance Computing

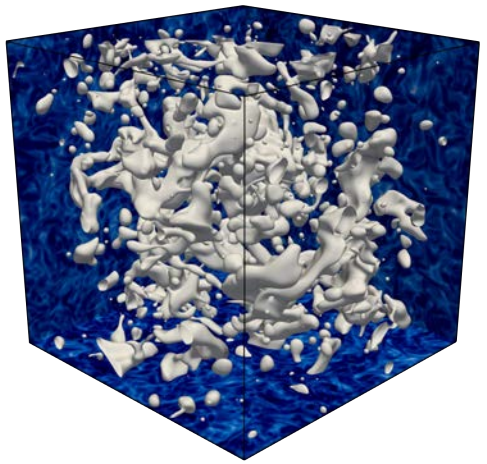
Personal Interests

- Running
- Swimming

Interfacial area modeling



Forced two-phase incompressible turbulence



Emily Herron

Postdoctoral Research Associate
Computing & Computational Sciences, Oak Ridge National Laboratory
Oak Ridge, TN (USA)

OAK RIDGE National Laboratory | LEADERSHIP COMPUTING FACILITY

Scientific Field

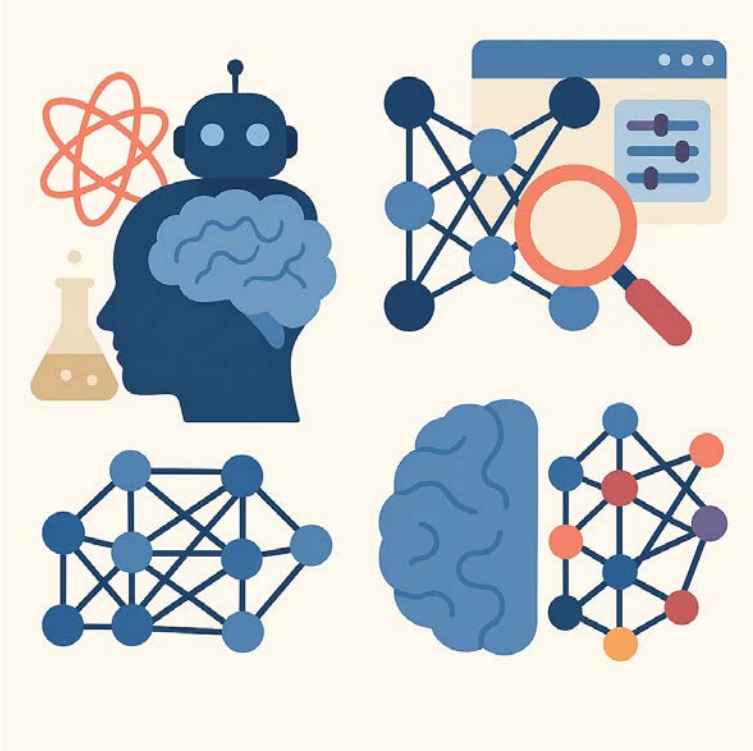
Computer Science

Research Interests

- Foundation Models for Science
- Neural Architecture Search
- Graph Neural Networks

Personal Interests

- Art
- Travelling



Matt Hyatt

Ph.D. Student
Computer Science, Loyola University Chicago
Chicago, IL (USA)

Scientific Field | Computer Science

Research Interests

- Self-Supervised Learning
- Fine Manipulation (Robotics)
- Human Behavior

Personal Interests

- Hiking
- Botany

Olawale Ikuyajolu

Postdoctoral Research Associate
Fluid dynamics and Solid Mechanics (T-3), Los Alamos National Laboratory
Los Alamos, New Mexico (USA)

Scientific Field

Earth Science, Climate Research

Research Interests

- Climate modeling
- Atmosphere-Wave-Ocean Interactions
- Machine learning for climate science

Personal Interests

- Soccer
- Traveling

George Iskander

Ph.D. Student
Department of Physics, University of Chicago
Chicago, IL (USA)

Scientific Field

Physics, Astrophysics

Research Interests

- Ultralight dark matter
- Cosmological simulations
- Structure formation

Personal Interests

- Baking
- Badminton

Jared Isobe

Engineer
Center for High Performance Computing, bp
Houston, TX (USA)

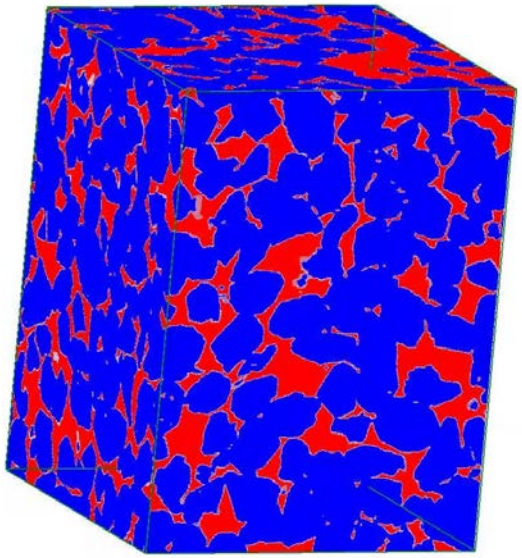
Scientific Field | Computer Science

Research Interests

- High Performance Computing
- Earth Sciences
- Machine Learning

Personal Interests

- Soccer
- Watercolor



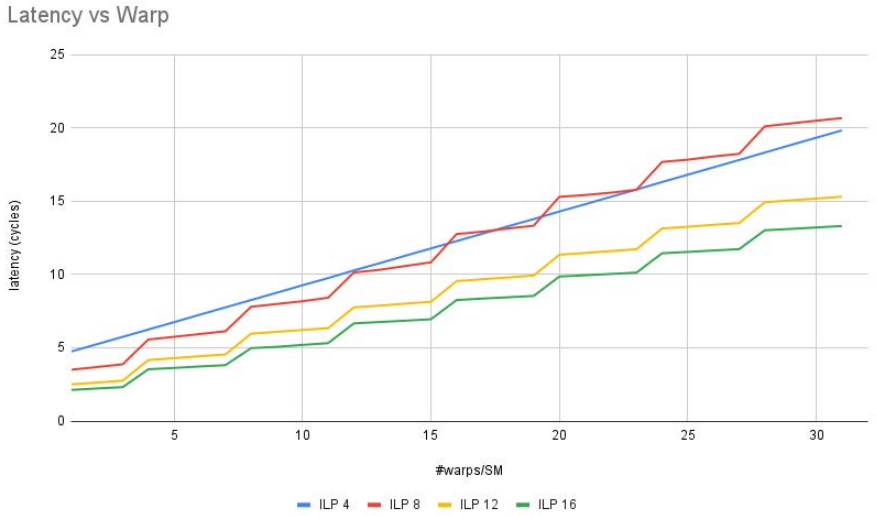
Aaron Jarmusch

Ph.D. Student
Computer & Information Sciences, University of Delaware
Newark, Delaware (US)

Scientific Field | Computer Science

Research Interests

- GPU Microarchitecture
- GPU Performance Modeling
- Parallel Programming Compilers
- Quantum Computing
- High-Performance Computing
- HPC Profilers and Tools



Personal Interests

- Hiking
- Matcha

Noor Md Shahriar Khan

Postdoctoral Research Associate
Oak Ridge National Lab
Oak Ridge, TN (USA)

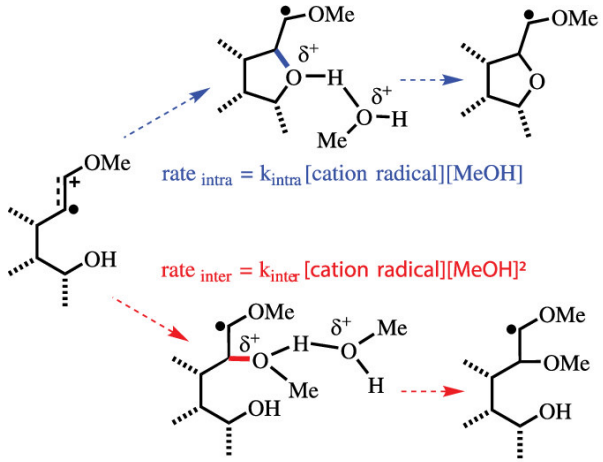
OAK RIDGE National Laboratory

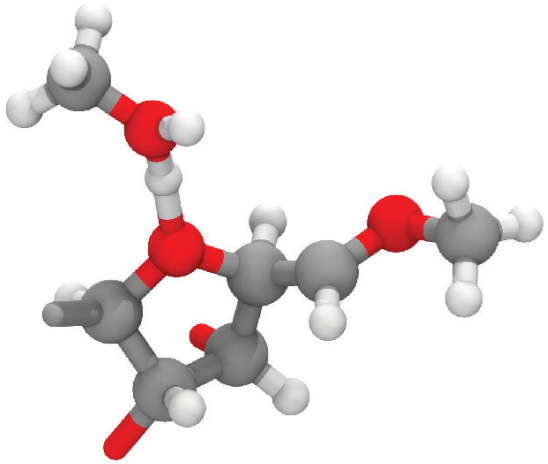
Scientific Field

Chemistry, Quantum Chemistry

Research Interests

- Application of Electronic Structure Theory
- High Performance Computing for Chemistry and Materials
- Massively Parallel Computation





Personal Interests

- Outdoor Sports
- Travelling

Hojin Kim

Ph. D. Student
College of Information Sciences and Technology, Penn State University
State College, PA, USA

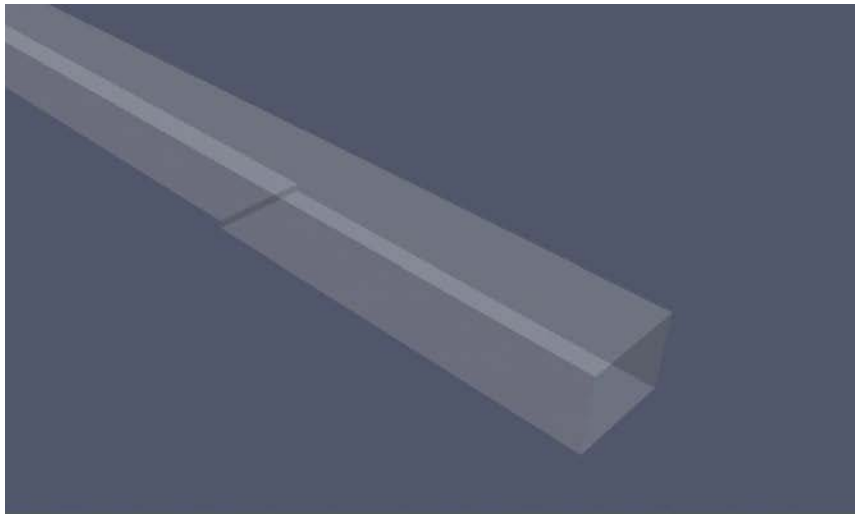
PennState

Scientific Field

Engineering, Fluids and Turbulence

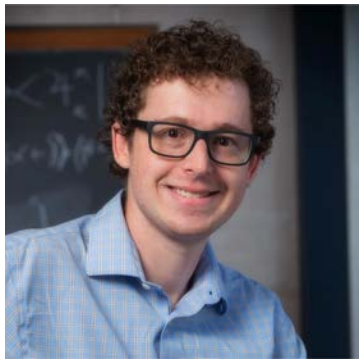
Research Interests

- Scientific machine learning
- Differentiable programming
- Geometric deep learning



Personal Interests

- Running
- Cooking



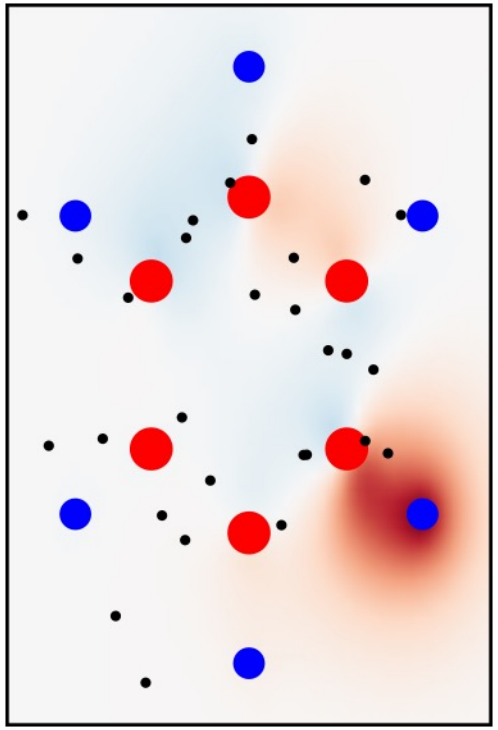
Kevin Kleiner

Ph.D. Student
Department of Physics, University of Illinois at Urbana-Champaign
Urbana, IL (USA)

Scientific Field | Physics, Condensed Matter Physics

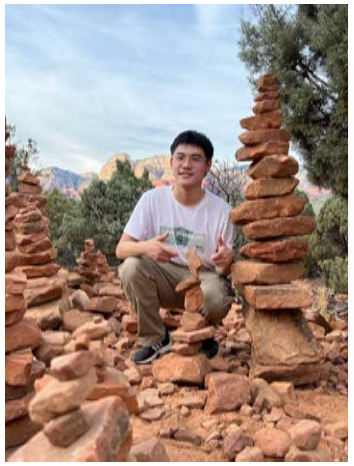
Research Interests

- High-powered numerical techniques for electronic structure theory
- Correlated electron systems
- Point defects in semiconductors



Personal Interests

- Developing communication and leadership through Toastmasters International
- Playing alto saxophone in band



Yiqun (Jalen) Luo

Ph.D. candidate
Department of Physics, Carnegie Mellon University
Pittsburgh, PA

Scientific Field

Materials Science, Condensed Matter and Materials Physics

Research Interests

- Organic Light-Emitting Materials
- Many-Body Pertubation Theory
- Materials Datasets

Personal Interests

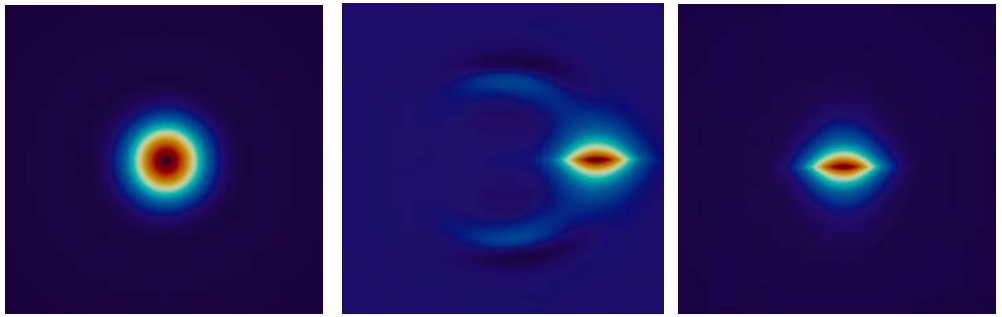
- Frisbee
- Traveling

Mason McCallum

Ph.D. Candidate
Mathematics, Southern Methodist University
Dallas, Texas (USA)

SMU

Scientific Field | Mathematics



Research Interests

- Topological Insulators
- Radiation Boundary Conditions
- High-Performance Computing

Personal Interests

- Cooking
- Running

Nicholas Mecham

Ph.D. Candidate
Nuclear Engineering, North Carolina State University
Raleigh, NC (USA)

NC STATE UNIVERSITY

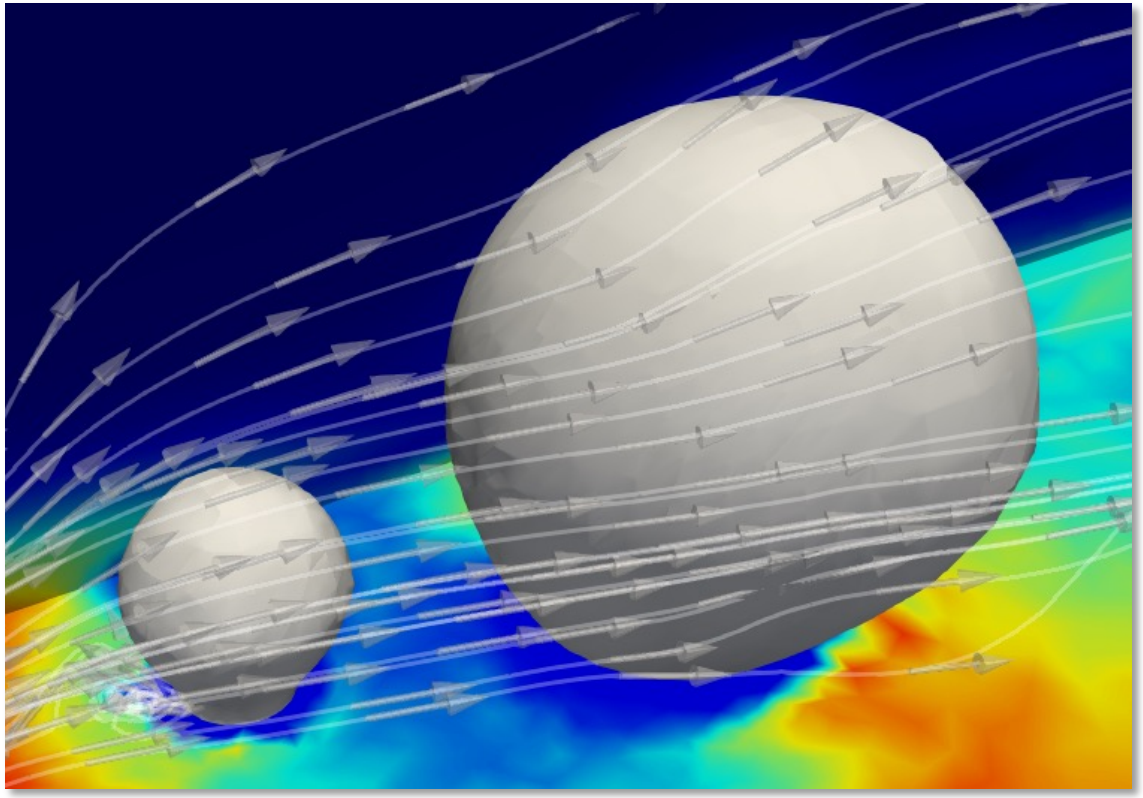
Scientific Field | Nuclear Energy

Research Interests

- Boiling Heat Transfer
- Interface-Resolved Flow Simulation
- Multiphase Turbulence

Personal Interests

- Music
- Baseball



Xinxin (Cissie) Mei

HPC Systems Software Engineer
CST, Thomas Jefferson National Accelerator Facility (JLab)
Newport News, State (Country)

Jefferson Lab

Scientific Field | Computer Science

Research Interests

- HW/SW co-design for next-generation HPC and AI data centers
- High-speed high-throughput scientific data acquisition pipelines
- AI for science

Personal Interests

- Watching movies
- Yarn and fabric work: sewing, knitting, crochet

Sidarth Narayanan

Research Engineer
HPC Group, Convergent Science Inc
Madison, WI, USA 53719

CONVERGENT SCIENCE | CONVERGE CFD SOFTWARE

PURDUE UNIVERSITY
College of Engineering

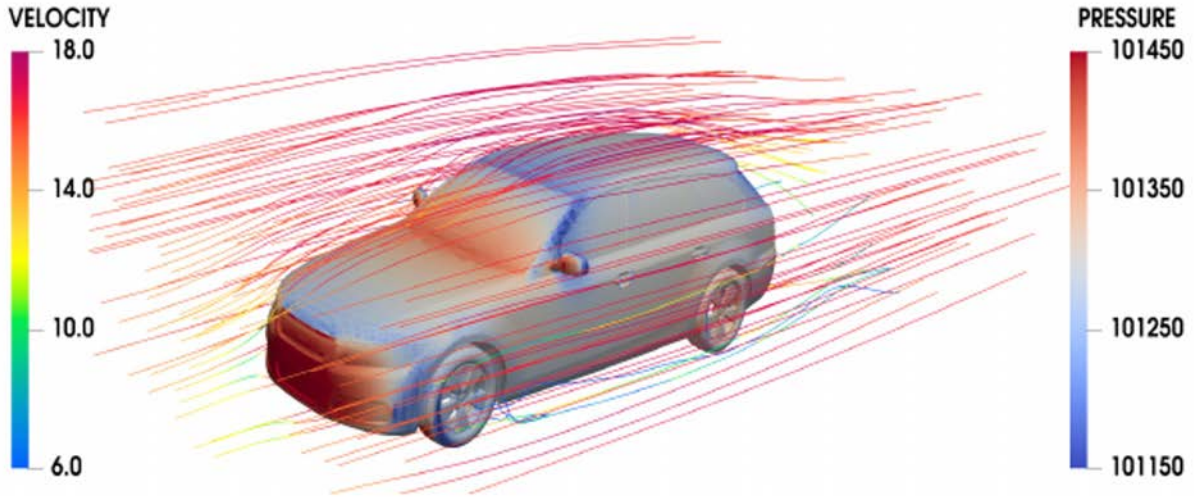
Scientific Field | Engineering, Fluids and Turbulence

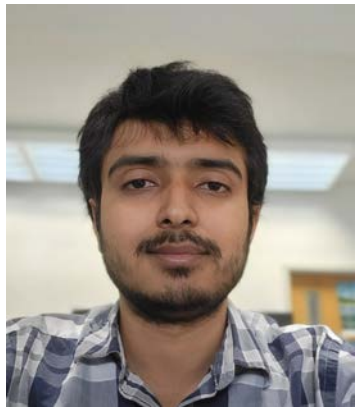
Research Interests

- High Performance Computing
- GPU Programming
- Computational Fluid Dynamics

Personal Interests

- Badminton
- Cricket





Sudarshan Neopane

Graduate Research Assistant
Physics and Astronomy, U of Tennessee Knoxville
Knoxville, TN (USA)

THE UNIVERSITY OF TENNESSEE KNOXVILLE

Scientific Field

Physics, Astrophysics

Research Interests

- Supernova and Compact objects
- Numerical PDEs
- High-Performance Computing

Personal Interests

- Table Tennis
- Hiking

NASA/CXC/SAO (*x-ray*); NASA/ESA/STScI (*optical*); NASA/ESA/CSA/STScI/D. Milisavljevic et al., NASA/JPL/Caltech (*infrared*); NASA/CXC/SAO/J. Schmidt and K. Arcand (*image processing*)

Sam Novario

Staff Scientist
Department of Physics, Washington University in St. Louis
St. Louis, MO (USA)

Washington University in St. Louis

NUCLEI
Nuclear Computational Low-Energy Initiative

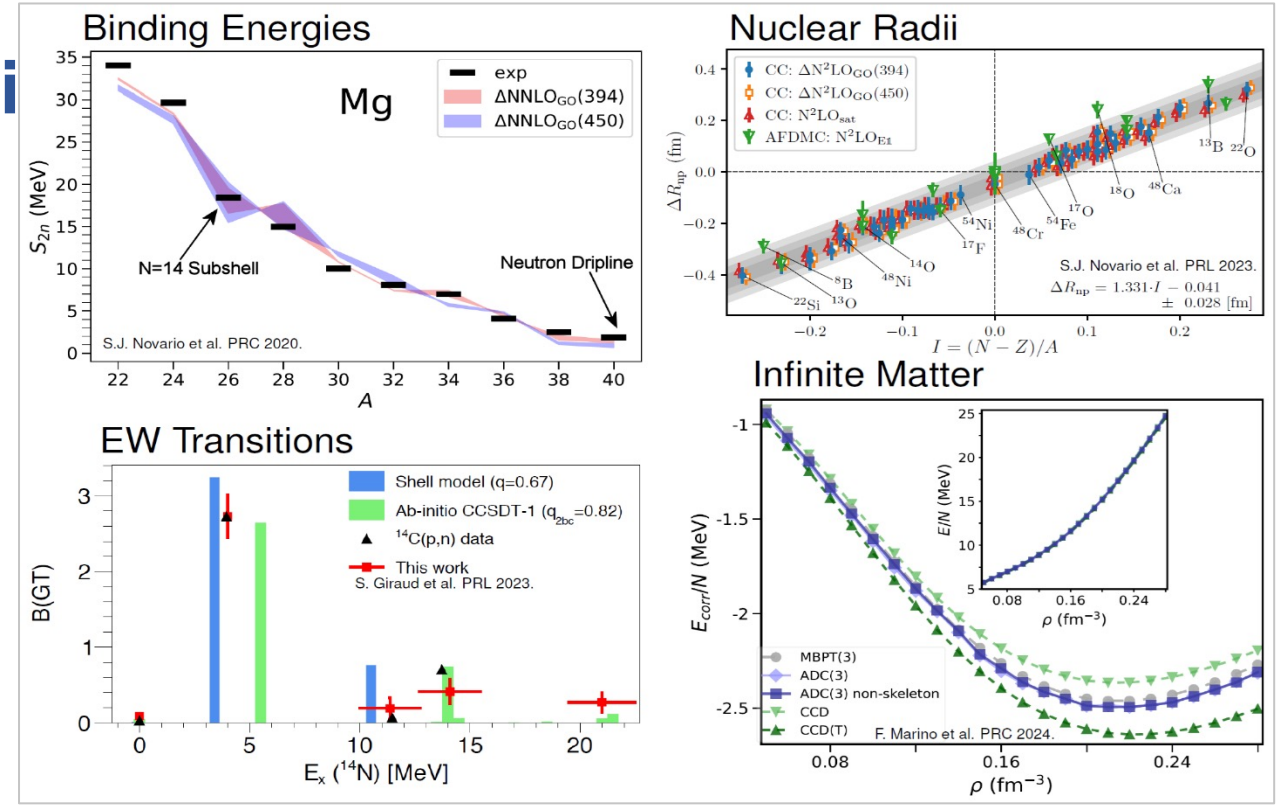
Scientific Field | Nuclear Physi

Research Interests

- Nuclear Structure Physics
- Many-Body Quantum Mechanics
- High-Performance Computing

Personal Interests

- Electric Bass
- Hiking
- Karaoke



Elise Palethorpe

PhD Candidate
School of Computer Science, Australian National University
Canberra, Australia

Australian National University

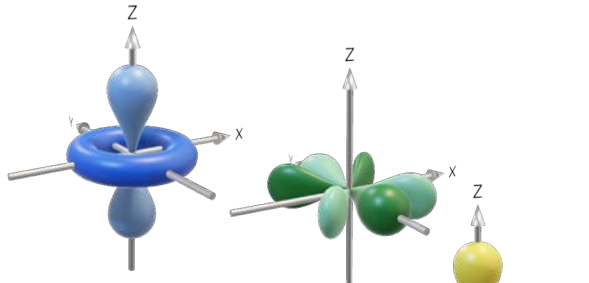
Scientific Field | Computer Science

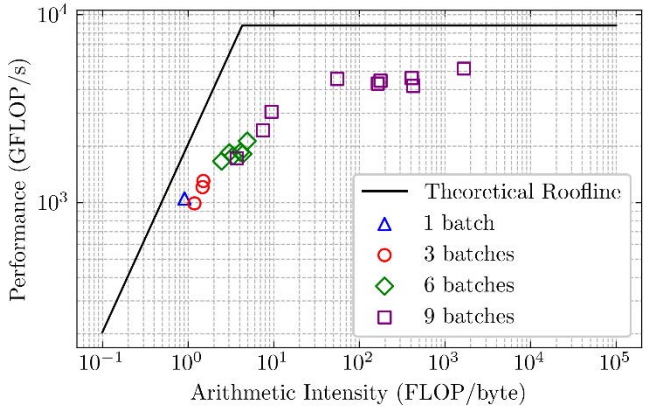
Research Interests

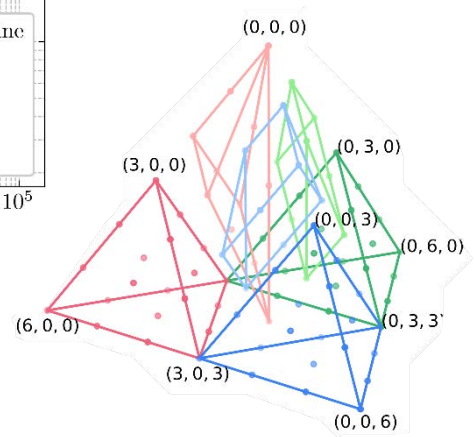
- *Ab initio* quantum chemistry
- GPU acceleration
- Analytic evaluation of electronic integrals

Personal Interests

- Hiking
- Soccer







Erik Pautsch

Ph.D. Student
Computer Science, Loyola University Chicago
Chicago, IL (USA)

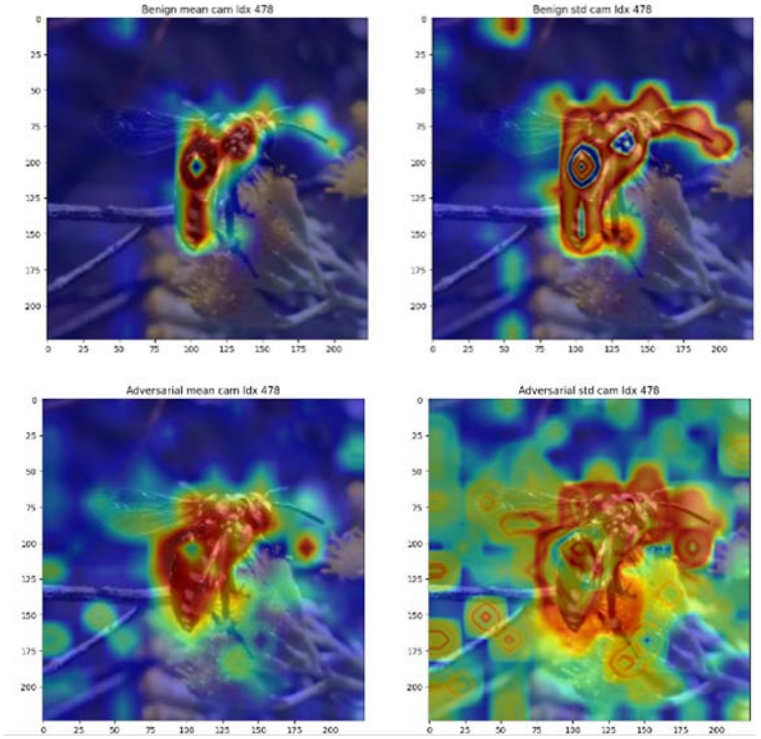
Scientific Field | Computer Science

Research Interests

- Large-scale LLM training and inferencing
- Software engineering for HPC
- Agentic AI systems

Personal Interests

- Snowboarding
- Formula 1



Thang Pham

Postdoc
Computational Science Division, Argonne National Laboratory
Lemont, IL (USA)

Argonne NATIONAL LABORATORY

Scientific Field | Computer Science, Materials Science

Research Interests

- Agentic workflow
- Porous materials
- High-performance computing

ChemGraph

Personal Interests

- Soccer
- Cat

Matteo Polimeno

Postdoctoral Researcher
Wind Energy Science, National Renewable Energy Laboratory
Arvada, CO (U.S.A.)

NREL
NATIONAL RENEWABLE ENERGY LABORATORY

Scientific Field

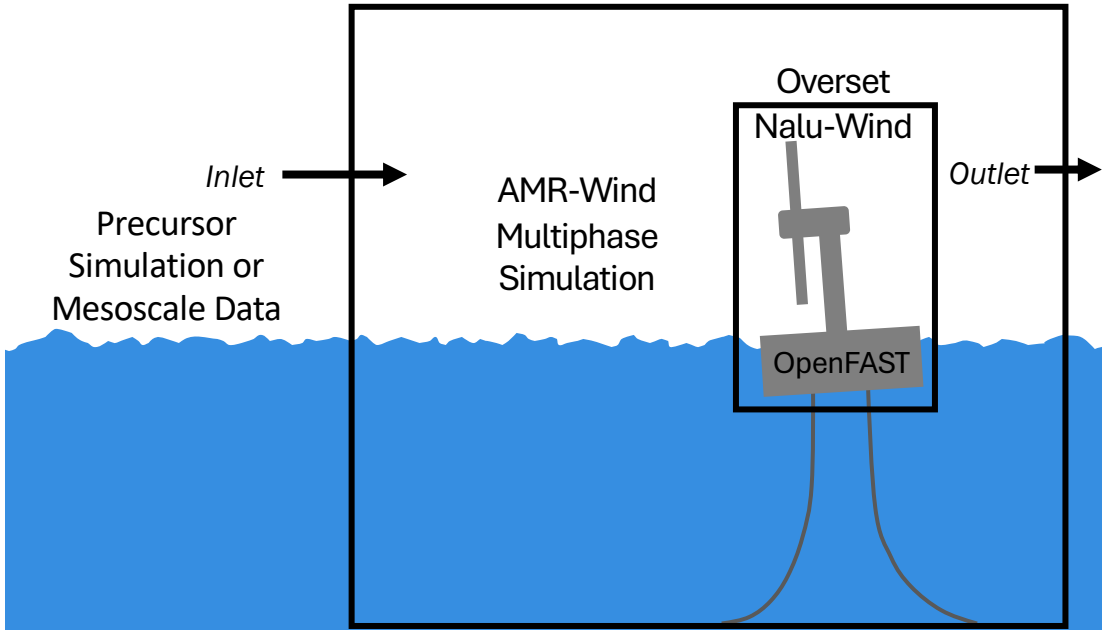
Computational Sciences

Research Interests

- Computational Fluid Dynamics
- High-Performance Computing
- Software Development

Personal Interests

- Basketball
- Acoustic guitar



Jyotsna Rajaraman

Ph.D. Student

Computer Science, University of Illinois Chicago

Chicago, IL (USA)

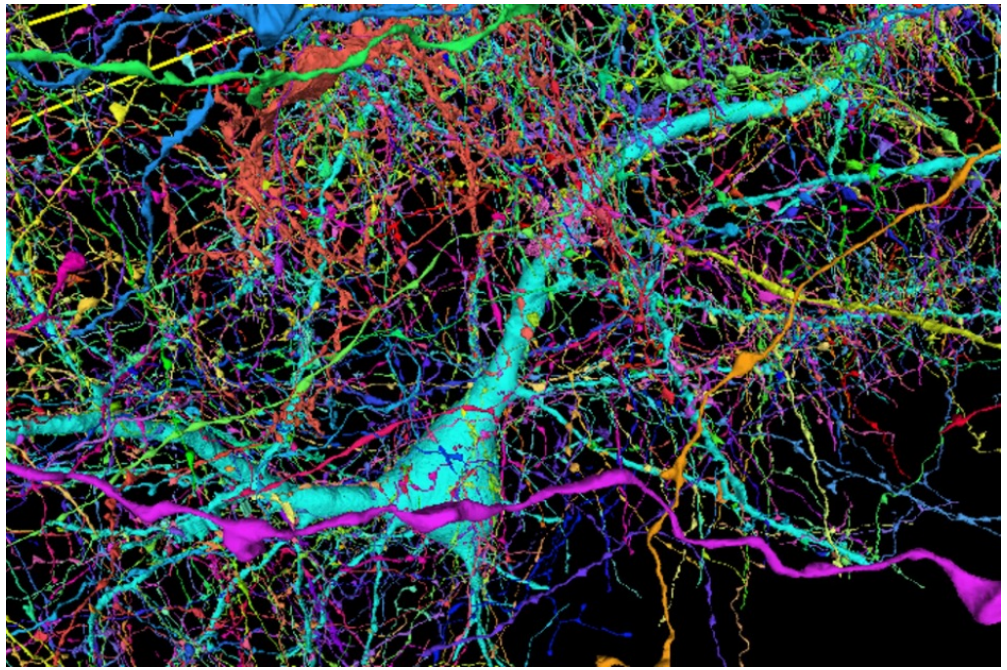
Scientific Field | Computer Science

Research Interests

- Connectomics and Brain Reconstruction
- ML for Biomedical Imaging
- High-Performance Computing

Personal Interests

- Reading
- Hiking



Evelyne Ringoot

PhD candidate
Mathematics and Computational Science, MIT
Cambridge, MA (United States)

Scientific Field

Mathematics, Computer Science

Research Interests

- High-Performance Computing
- Large-scale Numerical Linear Algebra
- GPU performance engineering

Personal Interests

- Figure Skating
- Indoor climbing

James Robertson

Ph.D. Student
Astronautical Engineering, University of Southern California
Los Angeles, CA (USA)

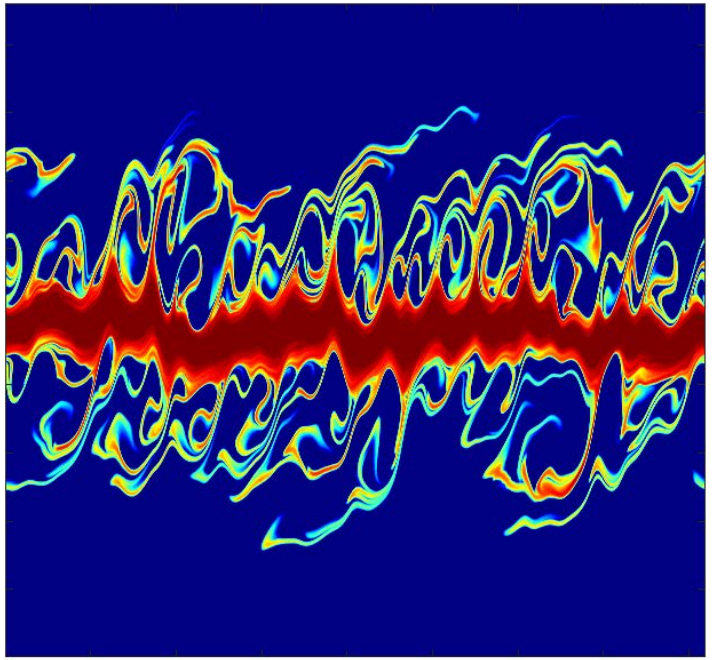
Scientific Field | Physics, Plasma Physics

Research Interests

- Plasma waves and turbulence
- Space propulsion using the solar wind
- GPU accelerated grid-based Vlasov codes

Personal Interests

- Hiking
- Running



Nathaniel Rowe

PhD Student
Enrico Fermi Institute, University of Chicago
Chicago, IL (USA)

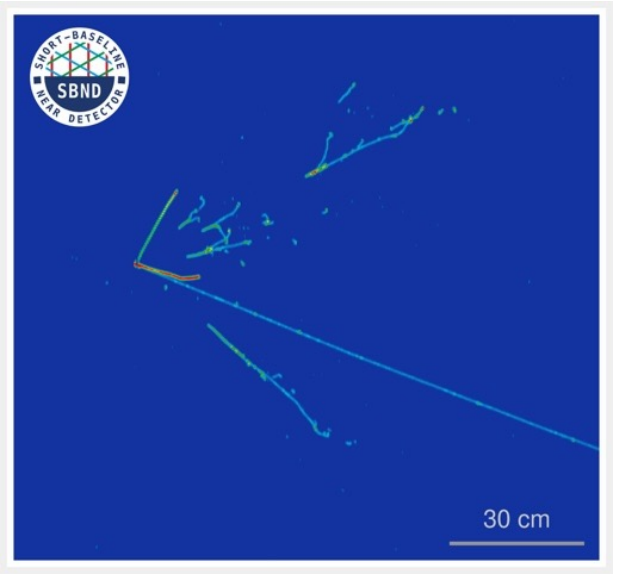
Scientific Field | High Energy Physics

Research Interests

- Neutrino Oscillations
- Cross Section Modeling
- High-Performance Computing

Personal Interests

- Reading
- Movies



Gabin Schieffer

Ph.D. Student
Department of Computer Science, KTH Royal Institute of Technology
Stockholm (Sweden)

Scientific Field | Computer Science

Research Interests

- GPU programming
- Nvidia Tensor Cores/AMD Matrix Cores
- Multi-GPU communication

Personal Interests

- Sport: hiking, ice skating
- Cooking

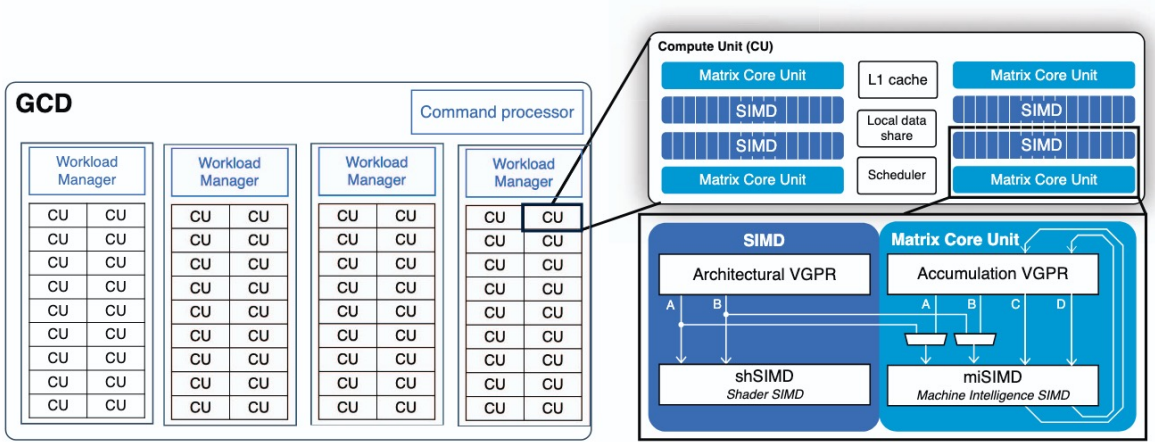


Figure: architecture of AMD MI250X GPU, detailled view of Matrix Cores

Caleb Schilly

Junior Software Engineer
NexGen Analytics, LC
Durham, NC (USA)

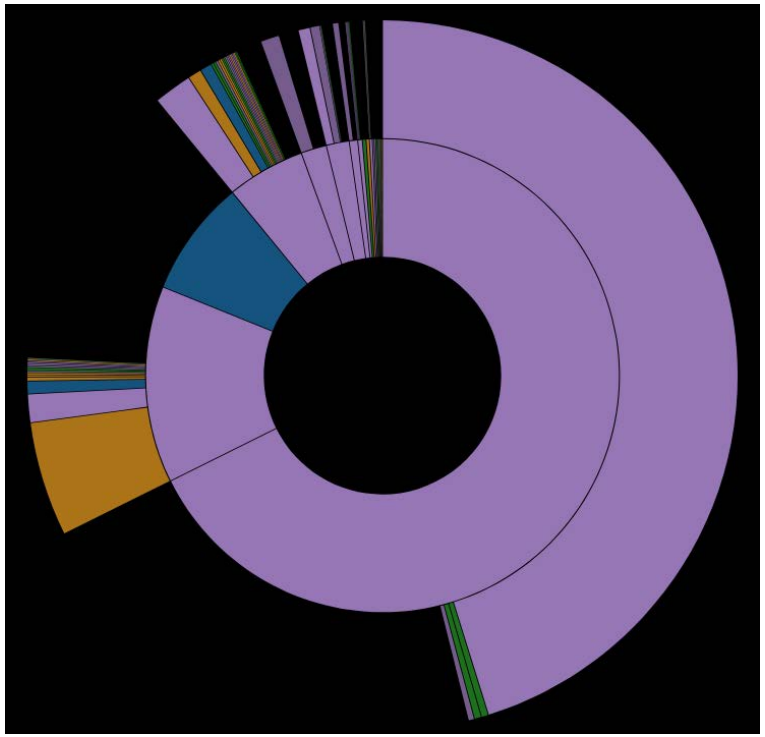
Scientific Field | Computer Science

Research Interests

- High-Performance Computing
- Reduced-Order Modeling
- Load Balancing

Personal Interests

- Music
- Movies



Sabet Seraj

Postdoctoral Researcher
National Renewable Energy Laboratory
Boulder, CO (USA)

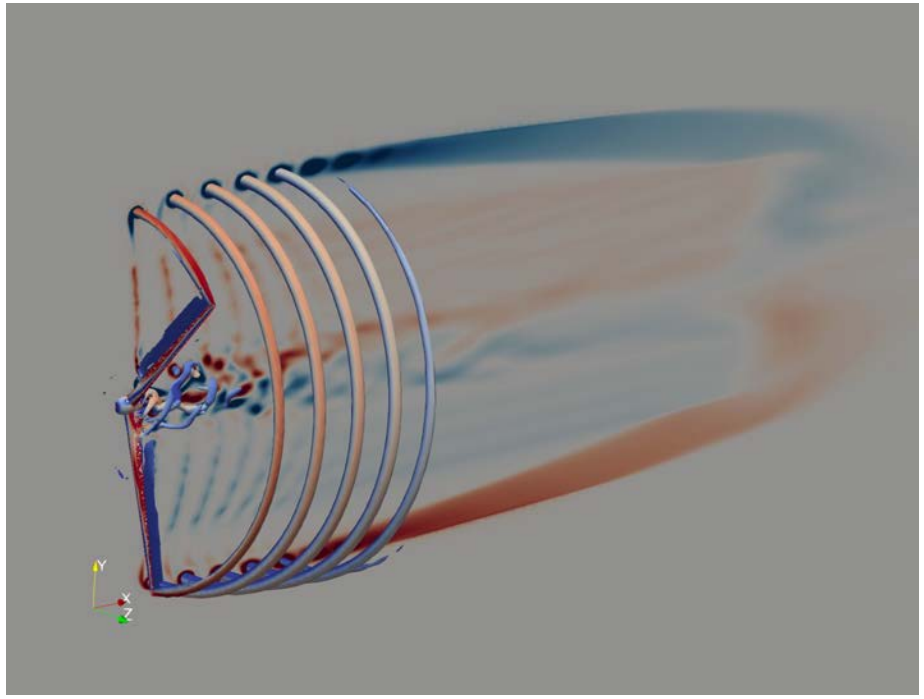
Scientific Field | Engineering, Aerodynamics

Research Interests

- Computational fluid dynamics
- Design optimization
- Reduced order modeling

Personal Interests

- Ultimate frisbee
- Baseball



Bhargav Sriram Siddani

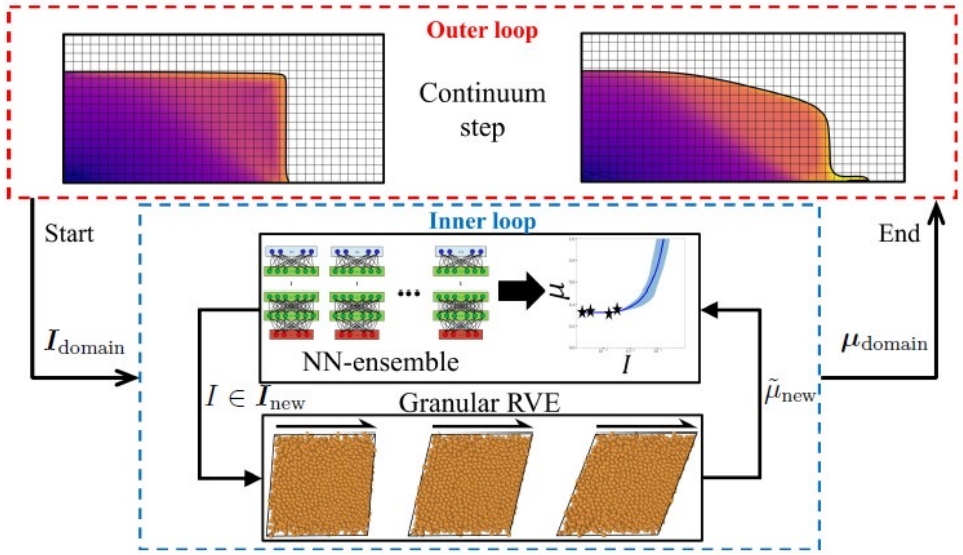
Postdoc
Applied Mathematics and Computational Research (AMCR) Division,
Lawrence Berkley National Laboratory (LBNL)
Berkeley, CA (USA)

BERKELEY LAB

Scientific Field | Engineering, Fluids and Turbulence

Research Interests

- Multiphase Flows
- High Performance Scientific Computing
- Scientific Machine Learning



Personal Interests

- Cricket and Tennis
- Exploring local cafes

Sagnik Singha

Research Associate
High Performance Computing Center, Texas Tech University
Lubbock, Tx (USA)

Scientific Field

Engineering, Fluid-Structure Interaction; Computer Science

Research Interests

- Collective particle behavior in fluids
- High performance computing, parallel programming, optimization
- Numerical methods, Physics informed neural network

Personal Interests

- Tennis, Chess
- Music
- Hiking

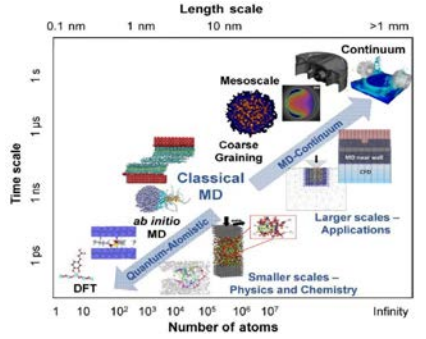
Tanvir Sohail

Postdoctoral Research Associate
National Center for Computational Sciences (NCCS),ORNL
Oak Ridge , Tennessee , USA

OAK RIDGE National Laboratory | LEADERSHIP COMPUTING FACILITY

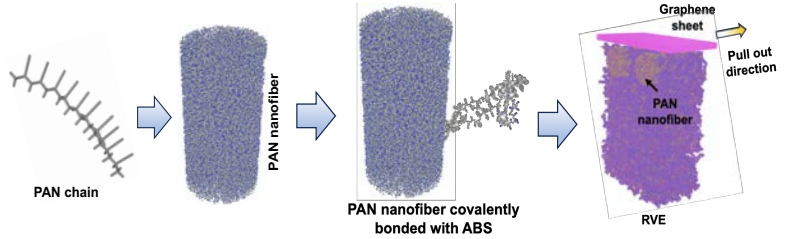
Scientific Field

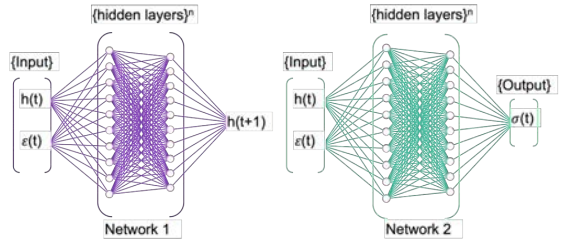
Materials Science, Materials Discovery, Design, and Synthesis



Research Interests

- Machine learning and uncertainty quantification of material design
- High Performance Computing
- Multiscale modelling of materials





Personal Interests

- Soccer
- Cooking

Ryan Stocks

Ph.D. Candidate
School of Computing, Australian National University
Canberra, ACT (Australia)

Australian National University

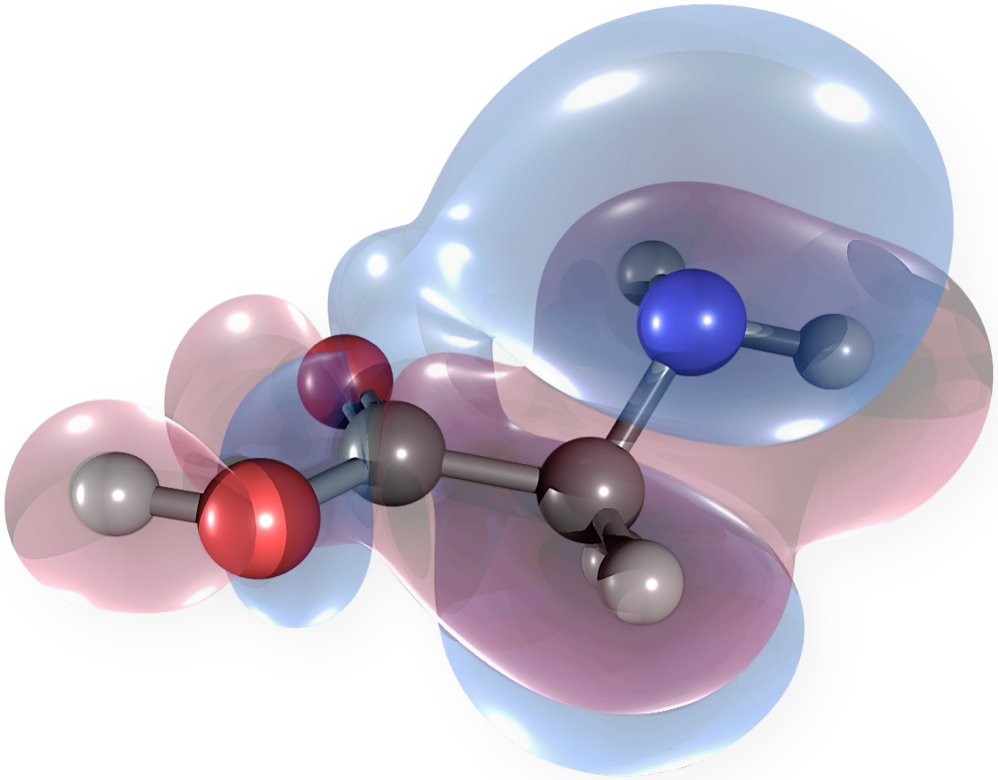
Scientific Field | Chemistry, Quantum Chemistry

Research Interests

- GPU accelerated computing
- Kohn-Sham Density Functional Theory
- Scientific Software Development

Personal Interests

- Long distance running (Rogaining / Orienteering)
- Camping



Alima Subedi

PhD Candidate
Computer Science, Missouri University of Science and Technology
Rolla, Missouri, USA

Scientific Field

Computer Science

Research Interests

- High Performance Computing
- Similarity Search, Information Retrieval
- LLMs, Transformer, Machine Learning, Artificial Intelligence

Personal Interests

- Hiking
- Watching Movies
- Fashion designing

Yingheng Tang

Postdoc
AMCR, Lawrence Berkeley National Laboratory
Berkeley, CA (USA)

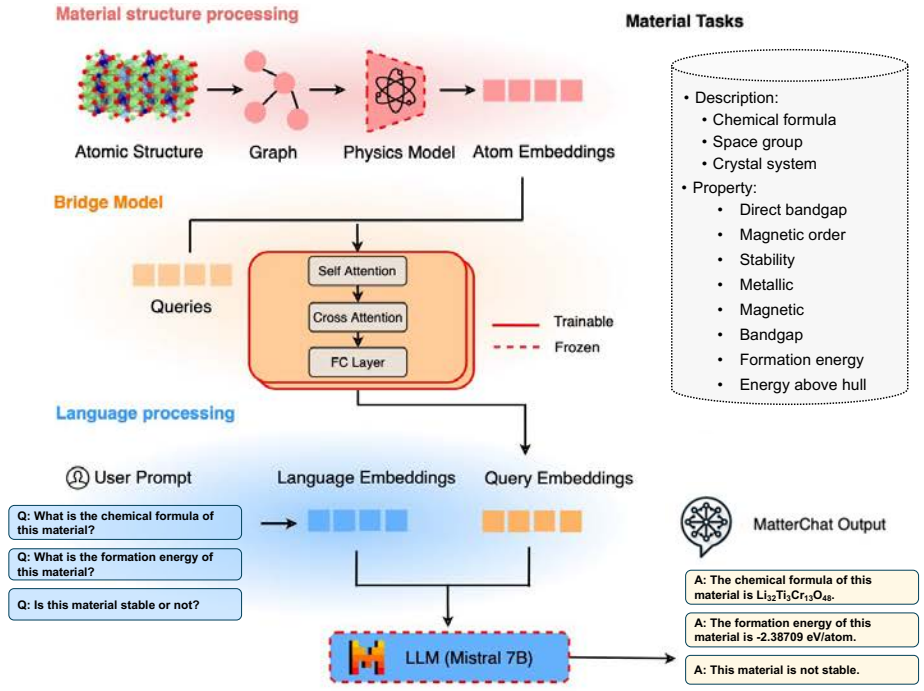
Scientific Field | Computer Science

Research Interests

- Scalable Machine Learning
- High-Performance Computing
- Numerical Method

Personal Interests

- Golf
- Poker



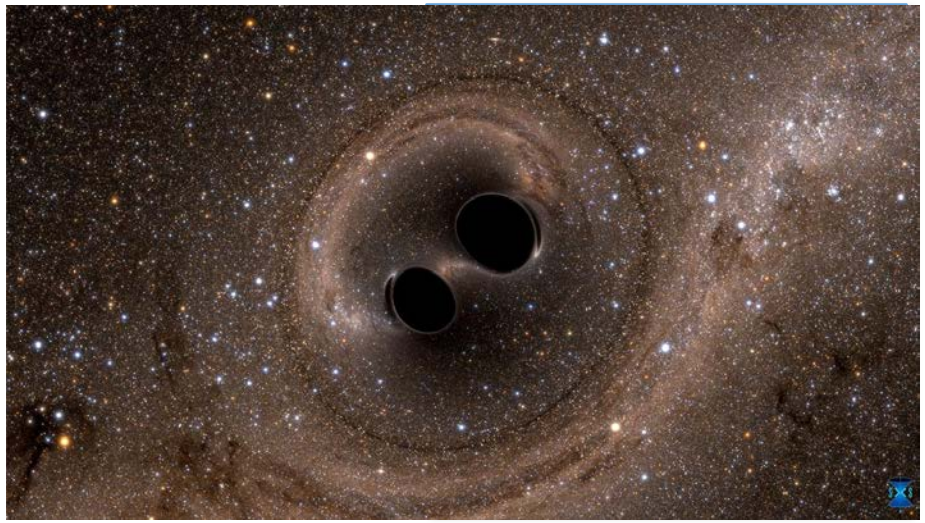
Lucas T. Sanches

Postdoc
CCT, Louisiana State University
Baton Rouge, Louisiana (USA)

Scientific Field | Physics, Astrophysics

Research Interests

- Computational Astrophysics
- High Performance Computing
- Numerical Methods for PDEs



Personal Interests

- Music and Tap Dancing
- Gaming and Graphics Programming

Felipe Tomé

Research Software Engineer
JuliaLab, MIT
Santa Barbara Do Oeste, São Paulo (Brazil)

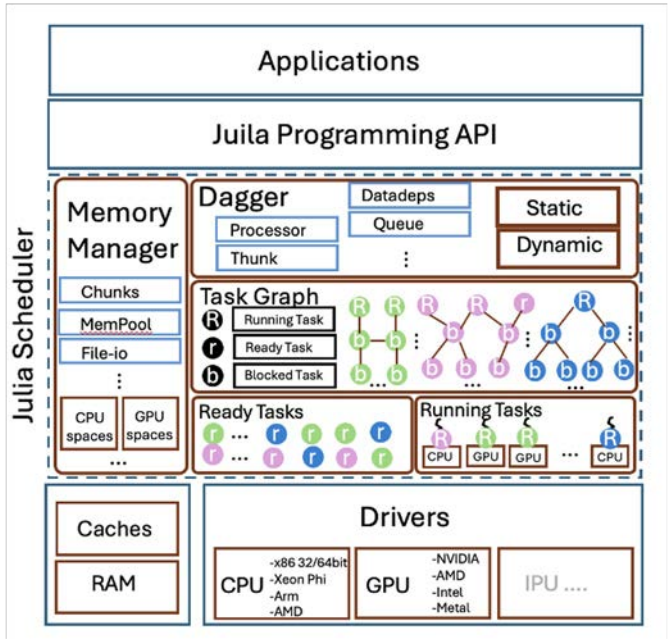
Scientific Field | Computer Science

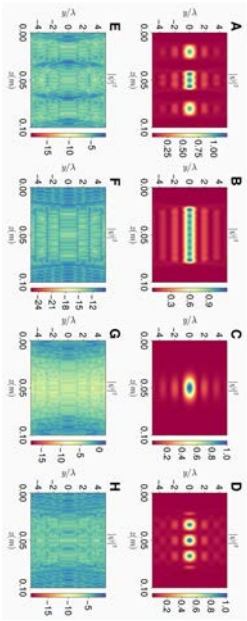
Research Interests

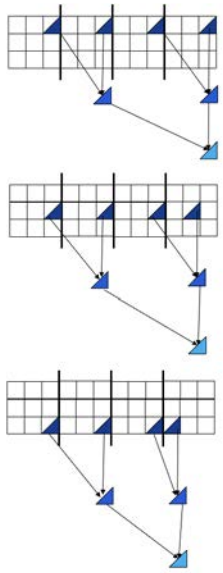
- Numerical Linear Algebra
- Parallel Management Runtime Systems
- Applied Physics

Personal Interests

- Trekking
- Swimming







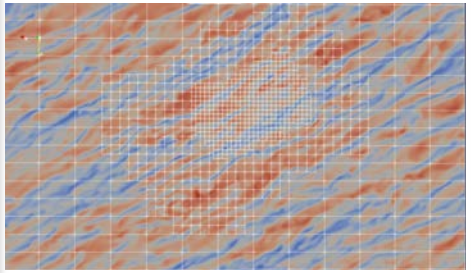
Ilker Topcuoglu

Researcher – Computational Science
National Wind Technology Center, National Renewable Energy Laboratory
Golden, CO (USA)

Scientific Field | Engineering, Wind Energy

Research Interests

- Numerical methods
- Parallel linear solvers
- Massively parallel programming



Personal Interests

- Playing classical and chamber music (viola/violin)
- Auto mechanical repairs

Aaron Tran

Postdoc
Dept. Physics, University of Wisconsin–Madison
Madison, WI (USA)

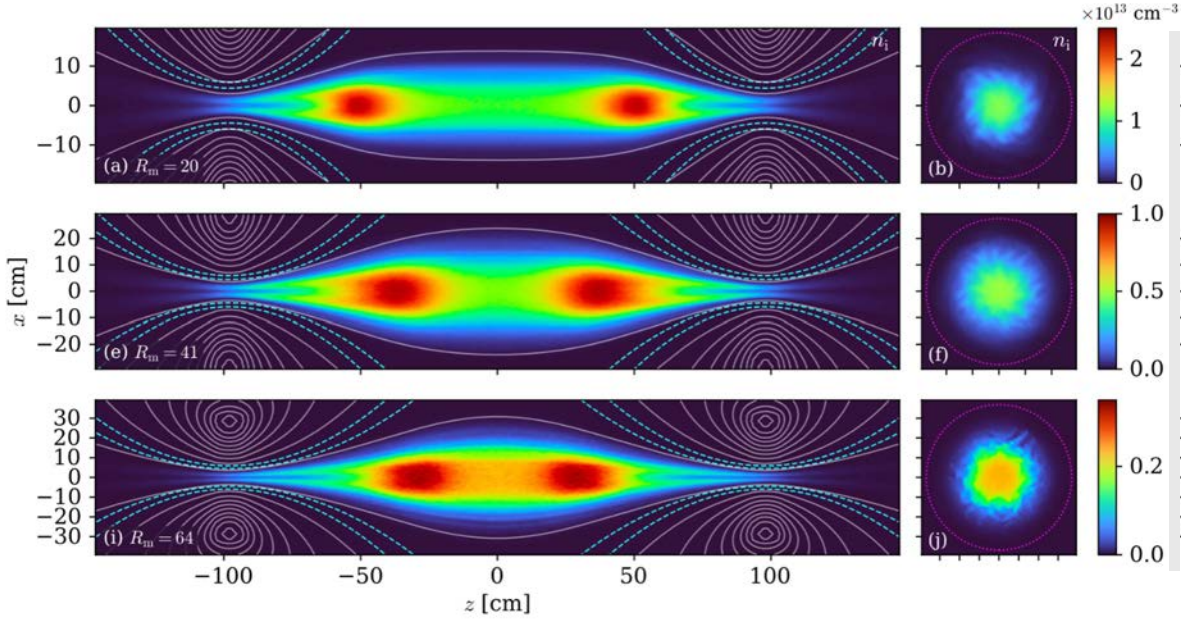
Scientific Field | Fusion Energy / Magnetic Confinement

Research Interests

- Kinetic plasma physics (fusion, astro, solar wind)
- Shocks, waves, instabilities
- Particle-in-cell methods

Personal Interests

- Running/biking
- Cooking



Jing Trerayapiwat

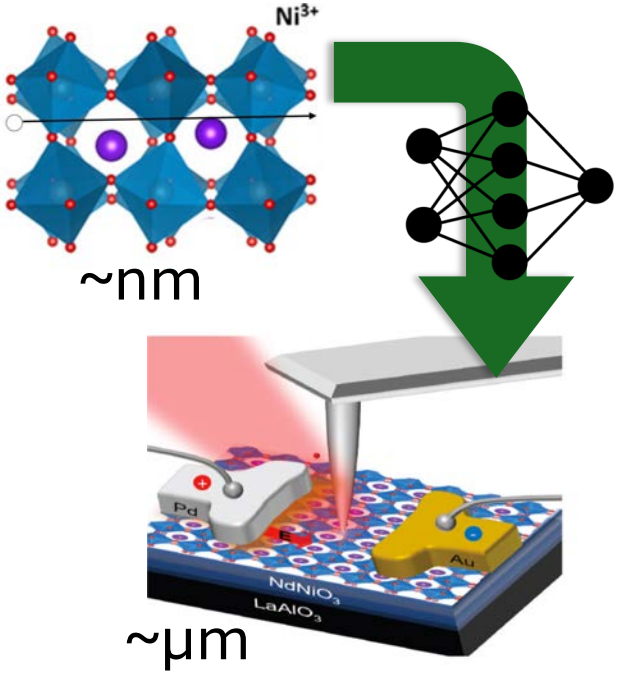
Postdoctoral Researcher
Center for Nanoscale Materials, Argonne National Laboratory
Lemont, IL

Argonne NATIONAL LABORATORY

Scientific Field | Materials Science, Nanoelectronics

Research Interests

- Exascale simulations of materials
- Hardware acceleration of ML model training
- Computational workflow development



Personal Interests

- Baking
- Hiking

Hari Tummalapalli

Postdoctoral Appointee
ALCF, Argonne National Laboratory
Lemont, Illinois (USA)

Argonne NATIONAL LABORATORY

Scientific Field

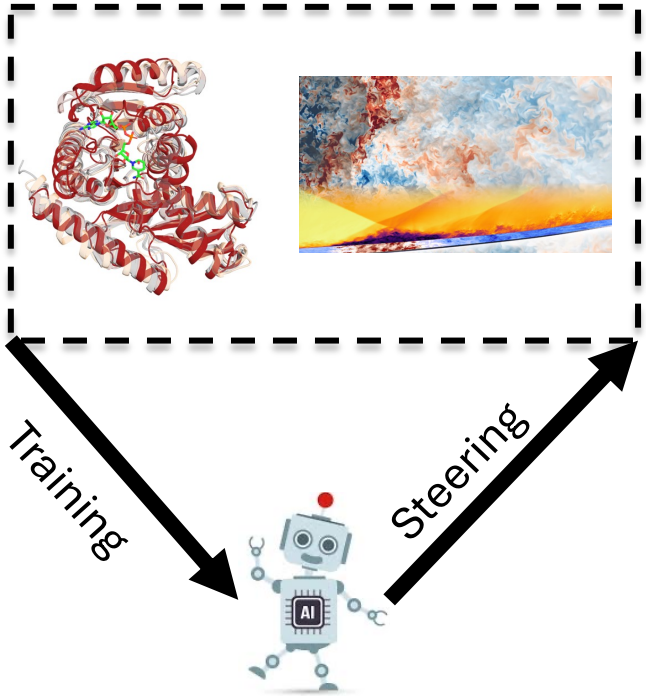
Engineering: Fluids and Turbulence, Computer Science

Research Interests

- In-situ AI/ML workflows
- High performance computing
- Combustion

Personal Interests

- Running
- Cycling



Manas Vishal

Ph.D. Student
Computational Sciences and Engineering, University of Massachusetts
North Dartmouth, MA (USA)

UMass Dartmouth

U²GRC

Center for Scientific Computing & Data Science Research

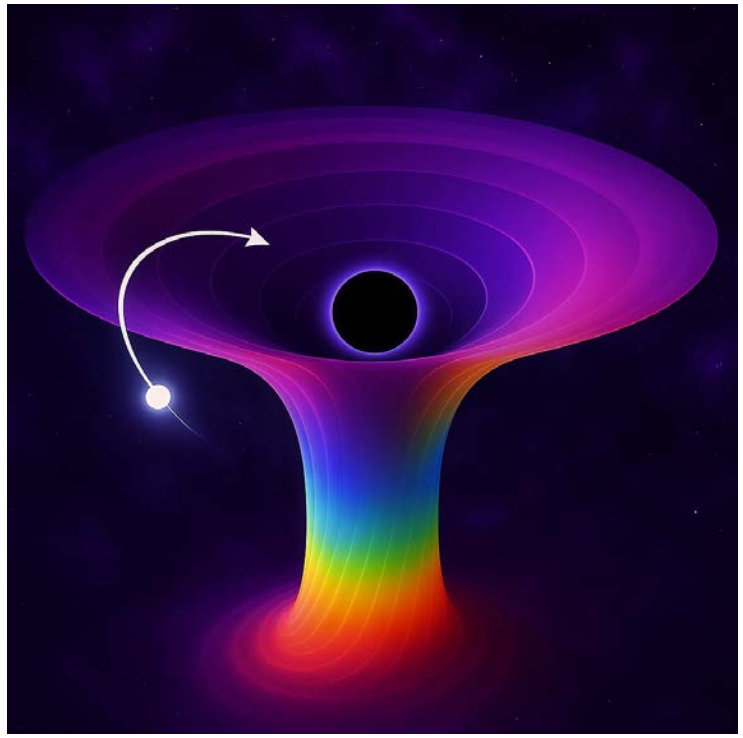
Scientific Field | Physics, Astrophysics

Research Interests

- Gravitational Physics
- Discontinuous Galerkin/Finite Element Methods
- High-Performance Computing

Personal Interests

- Board games (and RTS)
- Traveling
- Outreach



Srishti Vishwakarma

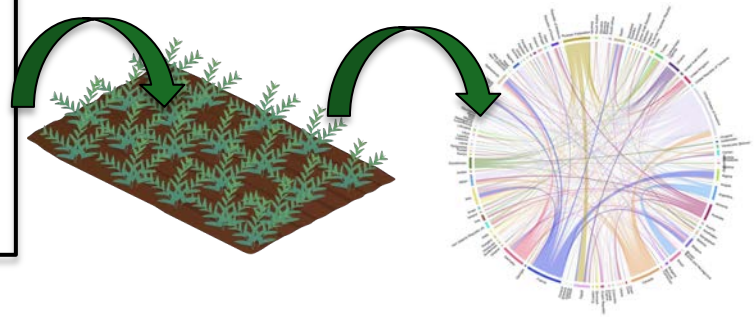
Postdoctoral Research Associate
Computational Sciences and Engineering Division
Oak Ridge National Laboratory
Oak Ridge, TN (USA)

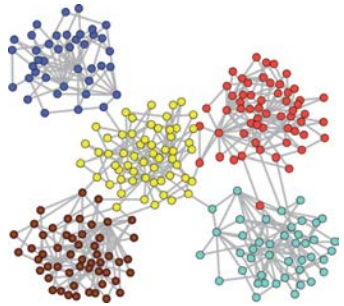
OAK RIDGE National Laboratory

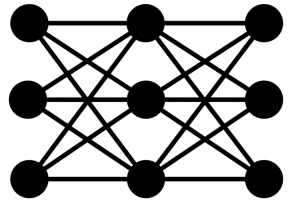
Scientific Field | Earth Science, Agricultural Sciences, Climate Research, Environmental Sciences

Research Interests

- Extreme weather stress
- Agriculture and food security
- Statistical computing
- Network analysis
- Machine learning







Personal Interests

- Painting
- Tennis/pickleball

IAN Media Library
Noun Project

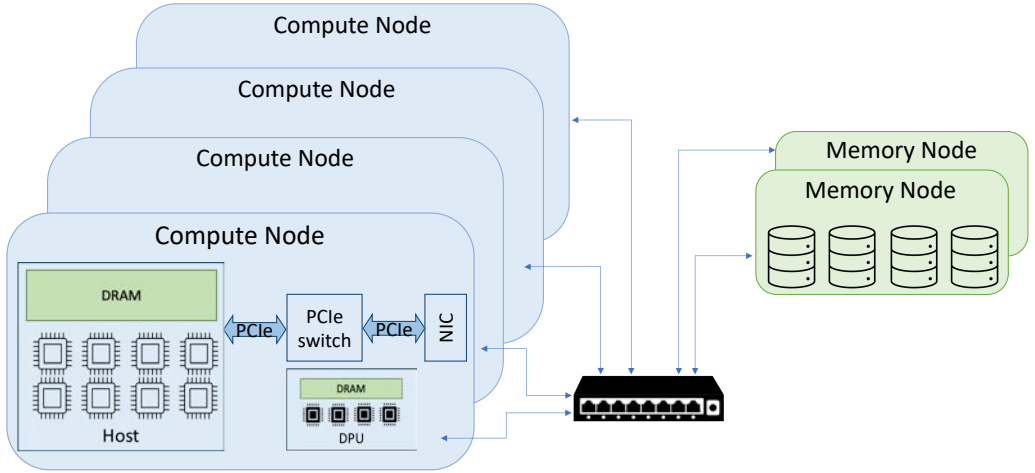
Jacob Wahlgren

Ph.D. Student
Computer Science, KTH Royal Institute of Technology
Stockholm (Sweden)

Scientific Field | Computer Science

Research Interests

- High-performance computing
- Memory systems
- Computer architecture



Personal Interests

- Rowing (crew)
- Reading

Jaywon (Jay) Woo

Ph.D. Student
Aerospace Engineering, UIUC
Urbana, IL (USA)

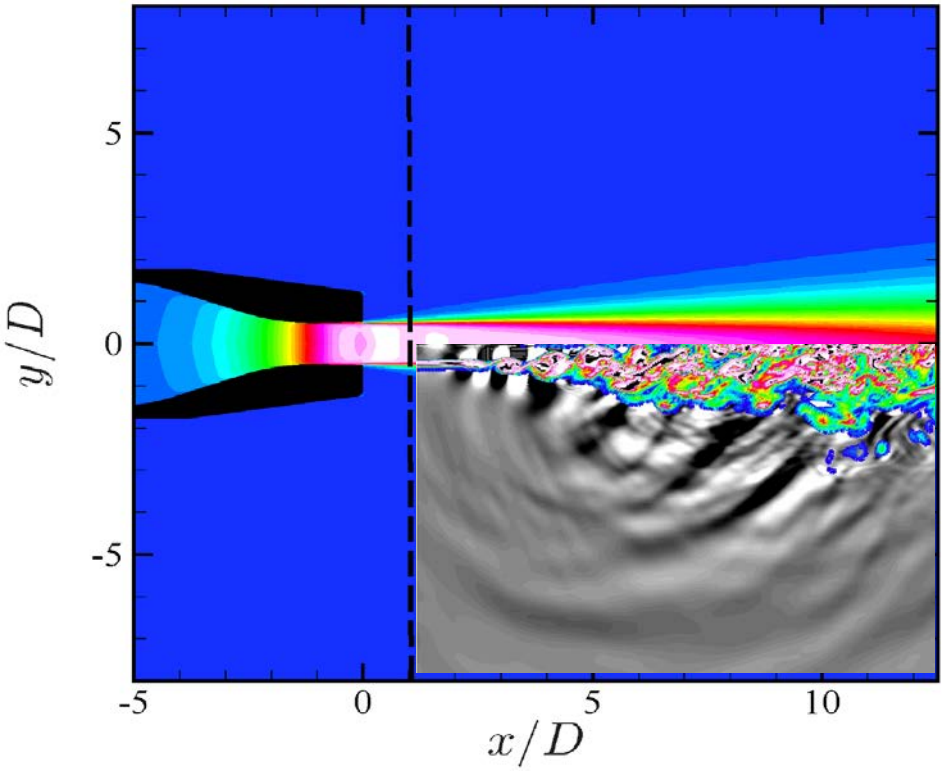
Scientific Field | Fluids and Turbulence Engineering

Research Interests

- Computational Aeroacoustics
- High-Fidelity CFD Simulations
- Reduced-Order Modeling

Personal Interests

- Pool
- Cats



Jun Yamasaki

Ph.D. Candidate
Aeronautics and Astronautics, Stanford University
Stanford, CA (USA)

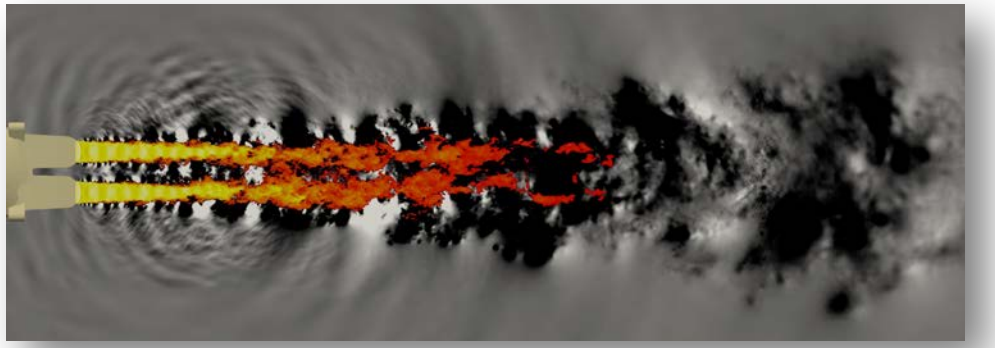
Stanford | ENGINEERING
Aeronautics & Astronautics

FLOW PHYSICS & AEROACOUSTICS LABORATORY
FPAL

Scientific Field | Engineering, Fluids and Turbulence

Research Interests

- Computational Fluid Dynamics + Aeroacoustics
- Data-Driven Dynamical Systems and Control
- Hardware-accelerated CFD Solvers



Personal Interests

- Piano
- Science Fiction

Boyuan Yao

Ph.D. Student
Oden Institute For Computational Engineering & Sciences
Austin, TX (USA)

ODEN INSTITUTE
FOR COMPUTATIONAL ENGINEERING & SCIENCES

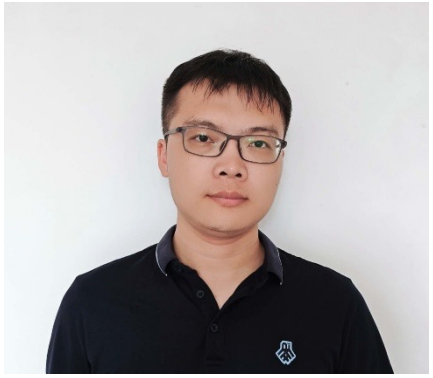
Scientific Field |Physics, Plasma Physics

Research Interests

- Inverse Problem
- Data Assimilation
- High-Performance Computing

Personal Interests

- Classical Music
- Basketball



Yadong (Jordan) Zeng

Senior Software Developer

Albany, NY

ALTAIR

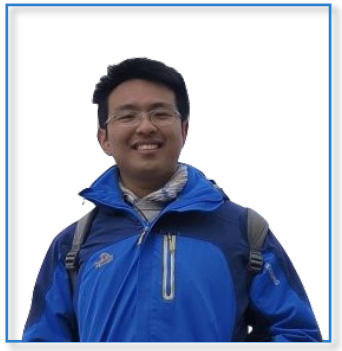
Scientific Field | CFD, Machine Learning, LLM, GPU

Research Interests

- GPU acceleration in AMReX
- Machine Learning Industrial Products related to CFD
- How LLMs benefit the Scientific Computing

Personal Interests

- Cooking
- Travelling



Rushan Zhang

Ph.D. Student
Computational Science and Engineering, Georgia Tech
Atlanta, GA(USA)

Georgia Tech

Scientific Field

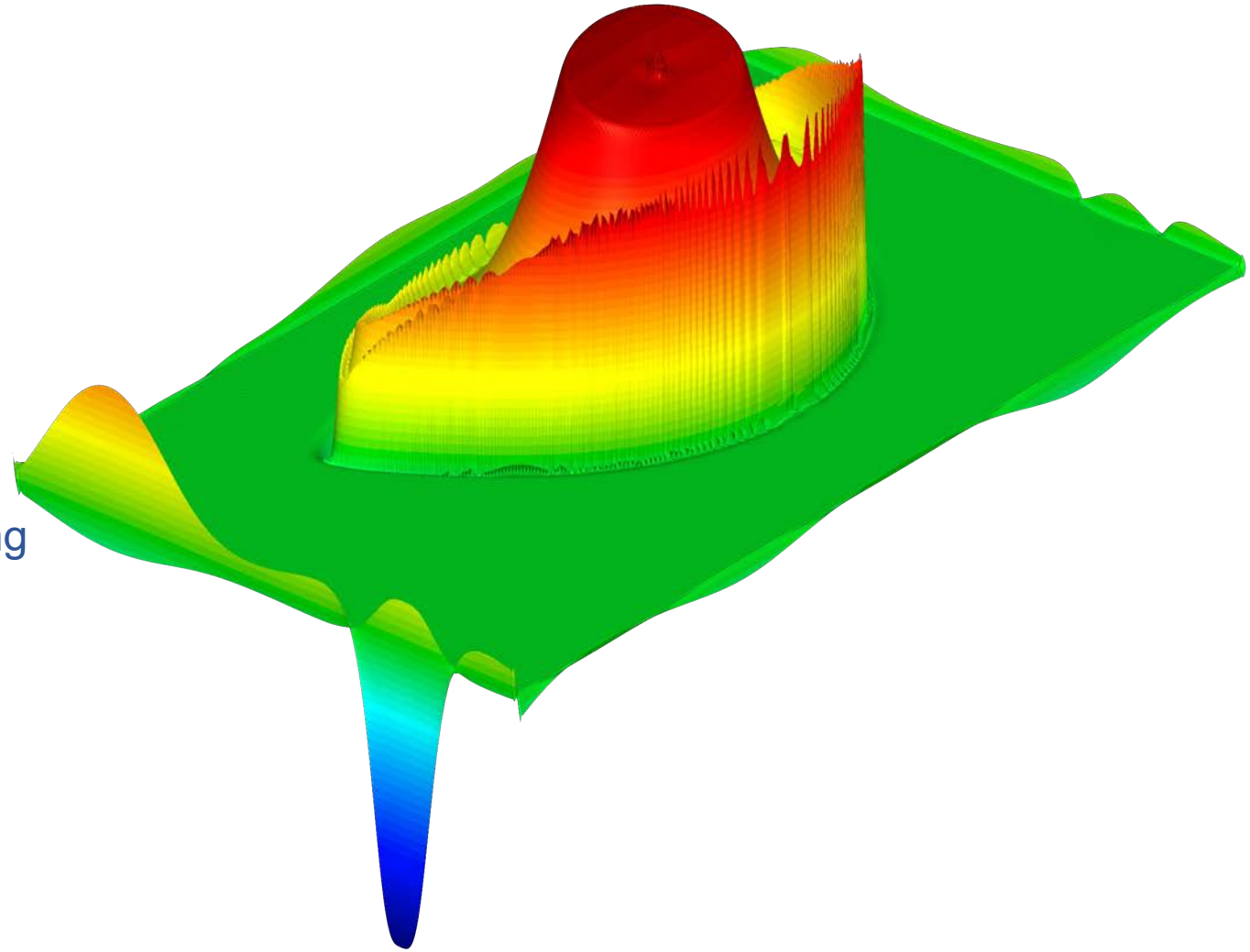
Plasma Physics

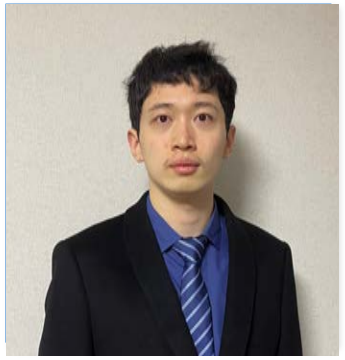
Research Interests

- High-Performance Computing
- Scientific Modeling and Simulation
- Artificial Intelligence for Scientific Computing

Personal Interests

- Hiking
- Table Tennis





Qiao Zhang

PH.D. Student
Computer Science, Saint Louis University
Saint Louis, MO (USA)

Scientific Field

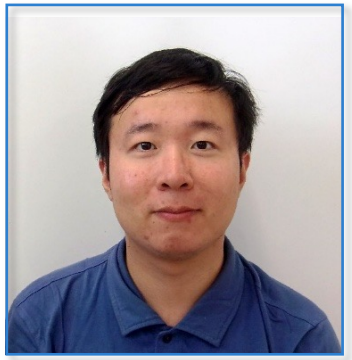
Computer Science

Research Interests

- High Performance Computing
- General Matrix Multiplication
- Linear Algebra

Personal Interests

- Music
- Mathematics



Zhendong Zhang

Ph.D. Student
Physics & Astronomy, The University of Tennessee
Knoxville, TN (USA)

THE UNIVERSITY OF TENNESSEE KNOXVILLE

Scientific Field

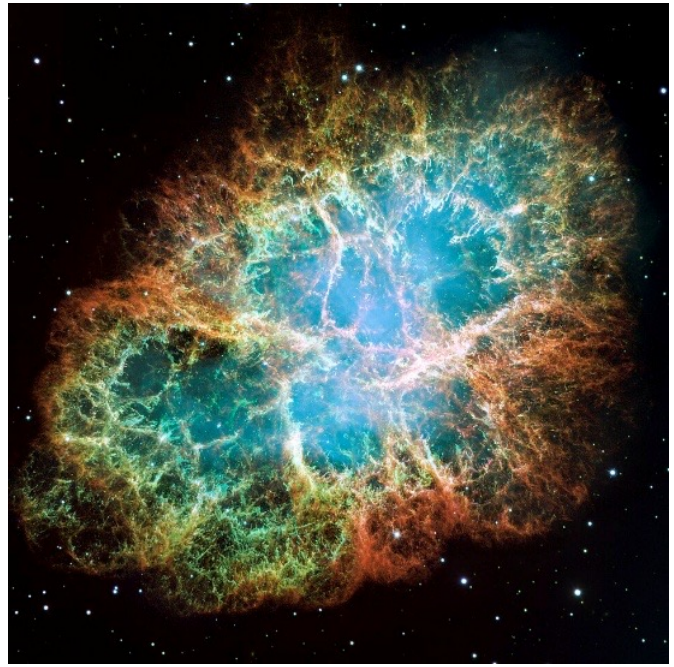
Physics, Astrophysics

Research Interests

- Supernovae and Astronomical Transients
- Nucleosynthesis in Astronomical Events
- High-Performance Computing

Personal Interests

- Traveling
- Communication



Credit: NASA, ESA, J. Hester and A. Loll (ASU)